

Digital Publishing WAI-ARIA Module 1.1



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Abstract

Enabling users of assistive technologies to find their way through web content requires embedding semantic metadata about web document structural divisions. This is particularly important for structural divisions of long-form documents and goes along with embedding semantic metadata about web-application widgets and behaviors for assistive technologies. This specification defines a set of WAI-ARIA roles that are specific to helping users of assistive technologies navigate through such long-form documents.

This document is part of the WAI-ARIA suite that is described in the [WAI-ARIA Overview](#).

Status of This Document

This section describes the status of this document at the time of its publication. A list of current W3C publications and the latest revision of this technical report can be found in the [W3C standards and drafts index](#) at <https://www.w3.org/TR/>.

We encourage feedback on all aspects of the specification, including on the newest additions of the `doc-pageheader` and `doc-pagefooter` roles.

Future updates to this specification may incorporate [new features](#).

This document was published by the [Accessible Rich Internet Applications Working Group](#) as a Recommendation using the [Recommendation track](#).

W3C recommends the wide deployment of this specification as a standard for the Web.

A W3C Recommendation is a specification that, after extensive consensus-building, is endorsed by W3C and its Members, and has commitments from Working Group members to [royalty-free licensing](#) for implementations.

This document was produced by a group operating under the [W3C Patent Policy](#). W3C maintains a [public list of any patent disclosures](#) made in connection with the deliverables of the group; that page also includes instructions for disclosing a patent. An individual who has actual knowledge of a patent which the individual believes contains [Essential Claim\(s\)](#) must disclose the information in accordance with [section 6 of the W3C Patent Policy](#).

This document is governed by the [03 November 2023 W3C Process Document](#).

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1. Introduction

This section is non-normative.

WAI-ARIA is a technical specification that defines a common host language semantic accessibility API and framework that enables web browsers to map the accessibility semantics in web content to

platform-specific accessibility APIs. This enables web content to be interoperable with platform assistive technologies that are similar to native platform applications without platform dependencies.

This specification is a modular extension of [WAI-ARIA](#) that is designed for the digital publishing industry. This specification includes the following goals:

- Expand [[WAI-ARIA](#)] to produce structural semantic extensions to accommodate the digital publishing industry,
- Align with a new governance model for modularization and extensions to [WAI-ARIA](#), and
- Provide structural semantics extensions that will both support assistive technologies and enable semantic navigation, styling and interactive features used by readers.

The roles defined in this specification are derived from the [EPUB Structural Semantics Vocabulary](#).

For a more detailed explanation of [WAI-ARIA](#), see the [WAI-ARIA Overview](#) and how it applies to Rich Internet Application Accessibility.

1.1 Target Audience

This specification defines a module of [WAI-ARIA](#) for digital publishing, including the values used to define [roles](#), [states](#), and [properties](#) of elements. It impacts several audiences:

- [User agents](#) that process content containing [WAI-ARIA](#) and Digital Publishing [WAI-ARIA](#) features
- [Assistive technologies](#) that provide specialized reading experiences to users with disabilities
- Authors of digital publications
- Authoring tools that help authors create conforming digital publications
- Conformance checkers, that verify appropriate use of [WAI-ARIA](#) and this Digital Publishing [WAI-ARIA](#) module

Each conformance requirement indicates the audience to which it applies.

Although this specification applies to the above audiences, it is not specifically targeted — nor is it intended to be the sole source of information for — any of these audiences. In the future, additional documents will be created to assist authors to apply these [WAI-ARIA](#) semantics for use in the publishing industry, and to define how the information in this document is mapped to platform

accessibility APIs.

§ 1.2 User Agent Support

This module builds on the general [User Agent support](#) principles defined in [WAI-ARIA] by also providing the ability for user agents to enhance the general user interface presented to readers.

§ 1.3 Co-evolution of WAI-ARIA and Host Languages

The Digital Publishing WAI-ARIA module follows the model for [co-evolution of WAI-ARIA and host languages](#) that are defined in [WAI-ARIA]. It is intended to augment semantics in supporting languages like [HTML], [SVG2] and [EPUB], or to be used as an accessibility enhancement technology in other markup-based languages that do not explicitly include support for ARIA. It clarifies semantics to assistive technologies when authors create new types of objects via style and script that are not yet directly supported by the language of the page, because the invention of new types of objects is faster than standardized support for them appears in web languages.

It is not appropriate to create objects with style and script when the host language provides a semantic element for those types of objects. While WAI-ARIA can improve the accessibility of these objects, accessibility is best provided by allowing the user agent to handle the object natively. For example, it is better to use a native heading element, such as an `h1`, than it is to use a [heading](#) role on a `div` element.

over time, it is expected that host languages will evolve to provide semantics for objects that currently can only be declared with this specification. This is natural and desirable, as one goal of WAI-ARIA is to help stimulate the emergence of more semantic and accessible markup. When native semantics for a given feature become available, it is appropriate for authors to use the native feature and stop using this module for that feature. However, legacy content can continue to use the Digital Publishing WAI-ARIA module, so the need for user agents to support it remains.

While specific features of this module could lose importance over time, the general possibility of the Digital Publishing WAI-ARIA module to add semantics to web pages or open web-based standards, such as EPUB, is expected to be a persistent need. Host languages might not implement all the semantics this module provides, and various host languages might implement different subsets of the features. New types of objects are continually being developed, and one goal of this specification is to provide a way to make such objects accessible, because authoring practices often advance faster than

host language standards. In this way, this module and host languages both evolve together but at different rates.

Some host languages exist to create semantics for features other than the user interface. For example, SVG expresses the semantics behind the production of graphical objects, not of the user interface components that those objects might represent. Host languages such as these might, by design, not provide native semantics that map to this specification's features. In these cases, the Digital Publishing [WAI-ARIA](#) module could be adopted as a long-term approach to add semantic information to these host languages.

§ 1.4 Authoring Practices

§ 1.4.1 Authoring Tools

Many of the requirements in the definitions of the [WAI-ARIA](#) and Digital Publishing [WAI-ARIA roles](#), [states](#) and [properties](#) can be checked automatically during the development process, similar to other quality control processes that are used for validating code. To assist authors who are creating digital publications, such as EPUB, such processes can compare the semantic structure of Digital Publishing [WAI-ARIA](#) roles from the [DOM](#) to that defined in this specification and notify the author of errors or simply create templates that enforce that structure.

§ 1.4.2 Testing Practices and Tools

The accessibility of interactive content cannot be confirmed by static checks alone. Developers of interactive content need to test for device-independent access to [widgets](#) and applications, and verify accessibility [API](#) access to all content and changes during user interaction.

§ 1.5 Assistive Technologies

Programmatic access to accessibility semantics is essential for assistive technologies. For more information, see the [Assistive Technologies](#) section in [[WAI-ARIA](#)].

§ 2. Conformance

As well as sections marked as non-normative, all authoring guidelines, diagrams, examples, and notes in this specification are non-normative. Everything else in this specification is normative.

The key words *MAY*, *MUST*, *MUST NOT*, and *SHOULD* in this document are to be interpreted as described in [BCP 14](#) [[RFC2119](#)] [[RFC8174](#)] when, and only when, they appear in all capitals, as shown here.

Normative sections provide requirements that authors, user agents and assistive technologies *MUST* follow for an implementation to conform to this specification.

Non-normative sections provide information useful to understanding the specification. Such sections might contain examples of recommended practice, but it is not required to follow such recommendations to conform to this specification.

§ 3. Digital Publishing Roles

This section defines additions to the [WAI-ARIA roles](#) model and describes the characteristics and properties of all [roles](#). See [ARIA Roles](#) for descriptions of the fields provided by this module.

§ 3.1 Definition of Roles

Below is an alphabetical list of [WAI-ARIA roles](#) to be used by rich internet application authors.

doc-abstract

A short summary of the principal ideas, concepts, and conclusions of the work, or of a section or excerpt within it.

doc-acknowledgments

A section or statement that acknowledges significant contributions by persons, organizations, governments, and other entities to the realization of the work.

doc-afterword

A closing statement from the author or a person of importance, typically providing insight into

how the content came to be written, its significance, or related events that have transpired since its timeline.

doc-appendix

A section of supplemental information located after the primary content that informs the content but is not central to it.

doc-backlink

A link that allows the user to return to a related location in the content (e.g., from a footnote to its reference or from a glossary definition to where a term is used).

doc-biblioentry

[Deprecated in DPUB-ARIA 1.1] A single reference to an external source in a bibliography. A biblioentry typically provides more detailed information than its reference(s) in the content (e.g., full title, author(s), publisher, publication date, etc.).

doc-bibliography

A list of external references cited in the work, which could be to print or digital sources.

doc-biblioref

A reference to a bibliography entry.

doc-chapter

A major thematic section of content in a work.

doc-colophon

A short section of production notes particular to the edition (e.g., describing the typeface used), often located at the end of a work.

doc-conclusion

A concluding section or statement that summarizes the work or wraps up the narrative.

doc-cover

An image that sets the mood or tone for the work and typically includes the title and author.

doc-credit

An acknowledgment of the source of integrated content from third-party sources, such as photos. Typically identifies the creator, copyright, and any restrictions on reuse.

doc-credits

A collection of credits.

doc-dedication

An inscription at the front of the work, typically addressed in tribute to one or more persons close to the author.

doc-endnote

[Deprecated in DPUB-ARIA 1.1] One of a collection of notes that occur at the end of a work, or a section within it, that provides additional context to a referenced passage of text.

doc-endnotes

A collection of notes at the end of a work or a section within it.

doc-epigraph

A quotation set at the start of the work or a section that establishes the theme or sets the mood.

doc-epilogue

A concluding section of narrative that wraps up or comments on the actions and events of the work, typically from a future perspective.

doc-errata

A set of corrections discovered after initial publication of the work, sometimes referred to as corrigenda.

doc-example

An illustration of a key concept of the work, such as a code listing, case study or problem.

doc-footnote

Ancillary information, such as a citation or commentary, that provides additional context to a referenced passage of text.

doc-foreword

An introductory section that precedes the work, typically not written by the author of the work.

doc-glossary

A brief dictionary of new, uncommon, or specialized terms used in the content.

doc-glossref

A reference to a glossary definition.

doc-index

A navigational aid that provides a detailed list of links to key subjects, names and other important topics covered in the work.

doc-introduction

A preliminary section that typically introduces the scope or nature of the work.

doc-noteref

A reference to a footnote or endnote, typically appearing as a superscripted number or symbol in the main body of text.

doc-notice

Notifies the user of consequences that might arise from an action or event. Examples include warnings, cautions and dangers.

doc-pagebreak

A separator denoting the position before which a break occurs between two contiguous pages in a statically paginated version of the content.

doc-pagefooter

A section of text appearing at the bottom of a page that provides context about the current work and location within it. The page footer is distinct from the body text and normally follows a

repeating template that contains (possibly truncated) items such as the document title, current section, author name(s), and page number.

doc-pageheader

A section of text appearing at the top of a page that provides context about the current work and location within it. The page header is distinct from the body text and normally follows a repeating template that contains (possibly truncated) items such as the document title, current section, author name(s), and page number.

doc-pagelist

A navigational aid that provides a list of links to the page breaks in the content.

doc-part

A major structural division in a work that contains a set of related sections dealing with a particular subject, narrative arc, or similar encapsulated theme.

doc-preface

An introductory section that precedes the work, typically written by the author of the work.

doc-prologue

An introductory section that sets the background to a work, typically part of the narrative.

doc-pullquote

A distinctively placed or highlighted quotation from the current content designed to draw attention to a topic or highlight a key point.

doc-qna

A section of content structured as a series of questions and answers, such as an interview or list of frequently asked questions.

doc-subtitle

An explanatory or alternate title for the work, or a section or component within it.

doc-tip

Helpful information that clarifies some aspect of the content or assists in its comprehension.

doc-toc

A navigational aid that provides an ordered list of links to the major sectional headings in the content. A table of contents could cover an entire work or only a smaller section of it.

doc-abstract (role)

A short summary of the principal ideas, concepts, and conclusions of the work, or of a section or excerpt within it.

EXAMPLE 1

```
<section role="doc-abstract" aria-label="Abstract">
  <p>Accessibility of web content requires semantic information about w:
      and behaviors ...</p>
</section>
```

Characteristics of doc-abstract:

Characteristic	Value
<i>Superclass Role:</i>	<u>section</u>
<i>Related Concepts:</i>	EPUB <u>abstract</u> [EPUB-SSV-11]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none">• <u>aria-atomic</u>• <u>aria-braillelabel</u>• <u>aria-brailleroledescription</u>• <u>aria-busy (state)</u>• <u>aria-controls</u>• <u>aria-current (state)</u>• <u>aria-describedby</u>• <u>aria-description</u>• <u>aria-details</u>• <u>aria-disabled (state)</u> (Global use deprecated in ARIA 1.2)• <u>aria-dropeffect</u>• <u>aria-errormessage</u> (Global use deprecated in ARIA 1.2)• <u>aria-flowto</u>• <u>aria-grabbed (state)</u>• <u>aria-haspopup</u> (Global use deprecated in ARIA 1.2)

Characteristic	Value
	<ul style="list-style-type: none"> • aria-hidden (state) • aria-invalid (state) (Global use deprecated in ARIA 1.2) • aria-keyshortcuts • aria-label • aria-labelledby • aria-live • aria-owns • aria-relevant • aria-roledescription
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	False

doc-acknowledgments (role)

A section or statement that acknowledges significant contributions by persons, organizations, governments, and other entities to the realization of the work.

EXAMPLE 2

```
<section role="doc-acknowledgments">
  <p>I would like to extend my sincere gratitude to ... </p>
</section>
```

Characteristics of doc-acknowledgments:

Characteristic	Value
<i>Superclass Role:</i>	landmark

Characteristic	Value
<i>Related Concepts:</i>	EPUB acknowledgments [EPUB-SSV-11]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none">• aria-atomic• aria-braillelabel• aria-brailleroledescription• aria-busy (state)• aria-controls• aria-current (state)• aria-describedby• aria-description• aria-details• aria-disabled (state) (Global use deprecated in ARIA 1.2)• aria-dropeffect• aria-errormessage (Global use deprecated in ARIA 1.2)• aria-flowto• aria-grabbed (state)• aria-haspopup (Global use deprecated in ARIA 1.2)• aria-hidden (state)• aria-invalid (state) (Global use deprecated in ARIA 1.2)• aria-keyshortcuts• aria-label• aria-labelledby• aria-live• aria-owns

Characteristic	Value
	<ul style="list-style-type: none"> • aria-relevant • aria-roledescription
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	False

doc-afterword (role)

A closing statement from the author or a person of importance, typically providing insight into how the content came to be written, its significance, or related events that have transpired since its timeline.

EXAMPLE 3

```
<section role="doc-afterword">
  <h2>Afterword: Why I Wrote This Book</h2>
  ...
</section>
```

Characteristics of doc-afterword:

Characteristic	Value
<i>Superclass Role:</i>	landmark
<i>Related Concepts:</i>	EPUB afterword [EPUB-SSV-11]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"> • aria-atomic • aria-braillelabel • aria-brailleroledescription • aria-busy (state) • aria-controls • aria-current (state)

<i>Characteristic</i>	<i>Value</i>
	<ul style="list-style-type: none">• <u>aria-describedby</u>• <u>aria-description</u>• <u>aria-details</u>• <u>aria-disabled (state)</u> (Global use deprecated in ARIA 1.2)• <u>aria-dropeffect</u>• <u>aria-errormessage</u> (Global use deprecated in ARIA 1.2)• <u>aria-flowto</u>• <u>aria-grabbed (state)</u>• <u>aria-haspopup</u> (Global use deprecated in ARIA 1.2)• <u>aria-hidden (state)</u>• <u>aria-invalid (state)</u> (Global use deprecated in ARIA 1.2)• <u>aria-keyshortcuts</u>• <u>aria-label</u>• <u>aria-labelledby</u>• <u>aria-live</u>• <u>aria-owns</u>• <u>aria-relevant</u>• <u>aria-roledescription</u>
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	False

doc-**appendix** (role)

A section of supplemental information located after the primary content that informs the content but is not central to it.

EXAMPLE 4

```
<section role="doc-appendix">
  <h2>Appendix A. Historical Timeline</h2>
  ...
</section>
```

Characteristics of doc-appendix:

<i>Characteristic</i>	<i>Value</i>
<i>Superclass Role:</i>	<u>landmark</u>
<i>Related Concepts:</i>	EPUB <u>appendix</u> [EPUB-SSV-11]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"><u>aria-atomic</u><u>aria-braillelabel</u><u>aria-brailleroledescription</u><u>aria-busy (state)</u><u>aria-controls</u><u>aria-current (state)</u><u>aria-describedby</u><u>aria-description</u><u>aria-details</u><u>aria-disabled (state)</u> (Global use deprecated in ARIA 1.2)<u>aria-dropeffect</u><u>aria-errormessage</u> (Global use deprecated in ARIA 1.2)<u>aria-flowto</u>

Characteristic	Value
	<ul style="list-style-type: none">• aria-grabbed (state)• aria-haspopup (Global use deprecated in ARIA 1.2)• aria-hidden (state)• aria-invalid (state) (Global use deprecated in ARIA 1.2)• aria-keyshortcuts• aria-label• aria-labelledby• aria-live• aria-owns• aria-relevant• aria-roledescription
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	False

doc-backlink (role)

A link that allows the user to return to a related location in the content (e.g., from a footnote to its reference or from a glossary definition to where a term is used).

EXAMPLE 5

```
<aside id="fn01" role="doc-footnote">
  <a role="doc-backlink" href="#fnref01">1.</a>
  Additional results of this study and
  similar studies can be found at ...
</aside>
```

Characteristics of doc-backlink:

<i>Characteristic</i>	<i>Value</i>
<i>Superclass Role:</i>	<u>link</u>
<i>Related Concepts:</i>	EPUB <u>referrer</u> [<u>EPUB-SSV-11</u>]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none">• <u>aria-disabled (state)</u>• <u>aria-expanded (state)</u>• <u>aria-haspopup</u>• <u>aria-atomic</u>• <u>aria-braillelabel</u>• <u>aria-brailleroledescription</u>• <u>aria-busy (state)</u>• <u>aria-controls</u>• <u>aria-current (state)</u>• <u>aria-describedby</u>• <u>aria-description</u>• <u>aria-details</u>• <u>aria-disabled (state)</u> (Global use deprecated in ARIA 1.2)• <u>aria-dropeffect</u>• <u>aria-errormessage</u> (Global use deprecated in ARIA 1.2)• <u>aria-flowto</u>• <u>aria-grabbed (state)</u>• <u>aria-haspopup</u> (Global use deprecated in ARIA 1.2)• <u>aria-hidden (state)</u>• <u>aria-invalid (state)</u> (Global use deprecated in ARIA 1.2)

<i>Characteristic</i>	<i>Value</i>
	<ul style="list-style-type: none"> • aria-keyshortcuts • aria-label • aria-labelledby • aria-live • aria-owns • aria-relevant • aria-roledescription
<i>Name From:</i>	<ul style="list-style-type: none"> • contents • author
<i>Accessible Name Required:</i>	True

doc-biblioentry (role)

[Deprecated in DPUB-ARIA 1.1] A single reference to an external source in a bibliography. A biblioentry typically provides more detailed information than its reference(s) in the content (e.g., full title, author(s), publisher, publication date, etc.).

NOTE

The [doc-biblioentry role](#) was designed for use as a list item, but due to clarifications in the WAI-ARIA specification, it is not valid as a child of the [list role](#). As the [doc-bibliography](#) role already identifies a section of bibliography entries, authors are instead advised to use the [list](#) and [listitem](#) roles when native HTML elements cannot be used to structure the entries.

Characteristics of doc-biblioentry:

<i>Characteristic</i>	<i>Value</i>
<i>Superclass Role:</i>	listitem

<i>Characteristic</i>	<i>Value</i>
<i>Related Concepts:</i>	EPUB biblioentry [EPUB-SSV-11]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none">• aria-posinset• aria-setsize• aria-atomic• aria-braillelabel• aria-brailleroledescription• aria-busy (state)• aria-controls• aria-current (state)• aria-describedby• aria-description• aria-details• aria-disabled (state) (Global use deprecated in ARIA 1.2)• aria-dropeffect• aria-errormessage (Global use deprecated in ARIA 1.2)• aria-flowto• aria-grabbed (state)• aria-haspopup (Global use deprecated in ARIA 1.2)• aria-hidden (state)• aria-invalid (state) (Global use deprecated in ARIA 1.2)• aria-keyshortcuts• aria-label• aria-labelledby

Characteristic	Value
	<ul style="list-style-type: none"> • <u>aria-live</u> • <u>aria-owns</u> • <u>aria-relevant</u> • <u>aria-roledescription</u>
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	True

doc-bibliography (role)

A list of external references cited in the work, which could be to print or digital sources.

The element carrying the **doc-bibliography** role *MUST* contain at least one descendant list containing the bibliography entries (if the entries are subdivided, for example alphabetically, the element would contain more than one list).

Authors *MUST NOT* apply the **doc-bibliography** role directly to the list containing the entries.

EXAMPLE 6

```
<section role="doc-bibliography">
  <h2>Select Bibliography</h2>
  <ul>
    ...
  </ul>
</section>
```

Characteristics of doc-bibliography:

Characteristic	Value
<i>Superclass Role:</i>	<u>landmark</u>
<i>Related Concepts:</i>	EPUB <u>bibliography</u> [<u>EPUB-SSV-11</u>]

<i>Characteristic</i>	<i>Value</i>
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none">• <u>aria-atomic</u>• <u>aria-braillelabel</u>• <u>aria-brailleroledescription</u>• <u>aria-busy (state)</u>• <u>aria-controls</u>• <u>aria-current (state)</u>• <u>aria-describedby</u>• <u>aria-description</u>• <u>aria-details</u>• <u>aria-disabled (state)</u> (Global use deprecated in ARIA 1.2)• <u>aria-dropeffect</u>• <u>aria-errormessage</u> (Global use deprecated in ARIA 1.2)• <u>aria-flowto</u>• <u>aria-grabbed (state)</u>• <u>aria-haspopup</u> (Global use deprecated in ARIA 1.2)• <u>aria-hidden (state)</u>• <u>aria-invalid (state)</u> (Global use deprecated in ARIA 1.2)• <u>aria-keyshortcuts</u>• <u>aria-label</u>• <u>aria-labelledby</u>• <u>aria-live</u>• <u>aria-owns</u>• <u>aria-relevant</u>

Characteristic	Value
	<ul style="list-style-type: none"> • <u>aria-roledescription</u>
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	False

doc-biblioref (role)

A reference to a bibliography entry.

EXAMPLE 7

```
<p>
  As <a role="doc-biblioref"
        href="#b8cab5dd-bc24-459c-9858-7afa9da69b64">Steinbeck</a>
  says in his great novel ...
</p>
```

Characteristics of doc-biblioref:

Characteristic	Value
<i>Superclass Role:</i>	<u>link</u>
<i>Related Concepts:</i>	EPUB <u>biblioref</u> [<u>EPUB-SSV-11</u>]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"> • <u>aria-disabled (state)</u> • <u>aria-expanded (state)</u> • <u>aria-haspopup</u> • <u>aria-atomic</u> • <u>aria-braillelabel</u> • <u>aria-brailleroledescription</u> • <u>aria-busy (state)</u>

<i>Characteristic</i>	<i>Value</i>
	<ul style="list-style-type: none">• <u>aria-controls</u>• <u>aria-current (state)</u>• <u>aria-describedby</u>• <u>aria-description</u>• <u>aria-details</u>• <u>aria-disabled (state)</u> (Global use deprecated in ARIA 1.2)• <u>aria-dropeffect</u>• <u>aria-errormessage</u> (Global use deprecated in ARIA 1.2)• <u>aria-flowto</u>• <u>aria-grabbed (state)</u>• <u>aria-haspopup</u> (Global use deprecated in ARIA 1.2)• <u>aria-hidden (state)</u>• <u>aria-invalid (state)</u> (Global use deprecated in ARIA 1.2)• <u>aria-keyshortcuts</u>• <u>aria-label</u>• <u>aria-labelledby</u>• <u>aria-live</u>• <u>aria-labels</u>• <u>aria-relevant</u>• <u>aria-roledescription</u>
<i>Name From:</i>	<ul style="list-style-type: none">• contents• author

<i>Characteristic</i>	<i>Value</i>
<i>Accessible Name Required:</i>	True

doc-chapter (role)

A major thematic section of content in a work.

EXAMPLE 8

```
<section role="doc-chapter">
  <h2>Chapter 1. Loomings.</h2>
  ...
</section>
```

Characteristics of doc-chapter:

<i>Characteristic</i>	<i>Value</i>
<i>Superclass Role:</i>	<u>landmark</u>
<i>Related Concepts:</i>	EPUB <u>chapter</u> [EPUB-SSV-11]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"><u>aria-atomic</u><u>aria-braillelabel</u><u>aria-braillerole</u><u>aria-description</u><u>aria-details</u><u>aria-disabled</u> (state) (Global use deprecated in

<i>Characteristic</i>	<i>Value</i>
	<p>ARIA 1.2)</p> <ul style="list-style-type: none">• <u>aria-dropeffect</u>• <u>aria-errormessage</u> (Global use deprecated in ARIA 1.2)• <u>aria-flowto</u>• <u>aria-grabbed (state)</u>• <u>aria-haspopup</u> (Global use deprecated in ARIA 1.2)• <u>aria-hidden (state)</u>• <u>aria-invalid (state)</u> (Global use deprecated in ARIA 1.2)• <u>aria-keyshortcuts</u>• <u>aria-label</u>• <u>aria-labelledby</u>• <u>aria-live</u>• <u>aria-owns</u>• <u>aria-relevant</u>• <u>aria-roledescription</u>
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	False

doc-colophon (role)

A short section of production notes particular to the edition (e.g., describing the typeface used), often located at the end of a work.

EXAMPLE 9

```
<section role="doc-colophon" aria-label="About the type">
  <p>This publication was set using ... </p>
</section>
```

Characteristics of doc-colophon:

Characteristic	Value
<i>Superclass Role:</i>	<u>section</u>
<i>Related Concepts:</i>	EPUB <u>colophon</u> [EPUB-SSV-11]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"><u>aria-atomic</u><u>aria-braillelabel</u><u>aria-brailleroledescription</u><u>aria-busy (state)</u><u>aria-controls</u><u>aria-current (state)</u><u>aria-describedby</u><u>aria-description</u><u>aria-details</u><u>aria-disabled (state)</u> (Global use deprecated in ARIA 1.2)<u>aria-dropeffect</u><u>aria-errormessage</u> (Global use deprecated in ARIA 1.2)<u>aria-flowto</u><u>aria-grabbed (state)</u><u>aria-haspopup</u> (Global use deprecated in ARIA 1.2)<u>aria-hidden (state)</u>

Characteristic	Value
	<ul style="list-style-type: none"> • aria-invalid (state) (Global use deprecated in ARIA 1.2) • aria-keyshortcuts • aria-label • aria-labelledby • aria-live • aria-owns • aria-relevant • aria-roledescription
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	False

doc-conclusion (role)

A concluding section or statement that summarizes the work or wraps up the narrative.

EXAMPLE 10

```
<section role="doc-conclusion">
  <h2>Summary</h2>
  <p>A central task in feminist scholarship is to expose and dismantle ...
</section>
```

Characteristics of doc-conclusion:

Characteristic	Value
<i>Superclass Role:</i>	landmark
<i>Related Concepts:</i>	EPUB conclusion [EPUB-SSV-11]

<i>Characteristic</i>	<i>Value</i>
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none">• <u>aria-atomic</u>• <u>aria-braillelabel</u>• <u>aria-brailleroledescription</u>• <u>aria-busy (state)</u>• <u>aria-controls</u>• <u>aria-current (state)</u>• <u>aria-describedby</u>• <u>aria-description</u>• <u>aria-details</u>• <u>aria-disabled (state)</u> (Global use deprecated in ARIA 1.2)• <u>aria-dropeffect</u>• <u>aria-errormessage</u> (Global use deprecated in ARIA 1.2)• <u>aria-flowto</u>• <u>aria-grabbed (state)</u>• <u>aria-haspopup</u> (Global use deprecated in ARIA 1.2)• <u>aria-hidden (state)</u>• <u>aria-invalid (state)</u> (Global use deprecated in ARIA 1.2)• <u>aria-keyshortcuts</u>• <u>aria-label</u>• <u>aria-labelledby</u>• <u>aria-live</u>• <u>aria-owns</u>• <u>aria-relevant</u>

<i>Characteristic</i>	<i>Value</i>
	<ul style="list-style-type: none"> • <u>aria-roledescription</u>
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	False

doc-cover (role)

An image that sets the mood or tone for the work and typically includes the title and author.

EXAMPLE 11

```
Characteristic</i>                   | <i>Value</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Superclass Role:</i>                 | <a href="#"><u>img</u></a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <i>Related Concepts:</i>                | EPUB <a href="#"><u>cover</u></a> [ <a href="#"><u>EPUB-SSV-11</u></a> ]                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <i>Inherited States and Properties:</i> | <ul style="list-style-type: none"> <li>• <a href="#"><u>aria-atomic</u></a></li> <li>• <a href="#"><u>aria-braillelabel</u></a></li> <li>• <a href="#"><u>aria-brailleroledescription</u></a></li> <li>• <a href="#"><u>aria-busy (state)</u></a></li> <li>• <a href="#"><u>aria-controls</u></a></li> <li>• <a href="#"><u>aria-current (state)</u></a></li> <li>• <a href="#"><u>aria-describedby</u></a></li> <li>• <a href="#"><u>aria-description</u></a></li> <li>• <a href="#"><u>aria-details</u></a></li> </ul> |

| Characteristic                   | Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                  | <ul style="list-style-type: none"><li>• <a href="#">aria-disabled (state)</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-dropeffect</a></li><li>• <a href="#">aria-errormessage</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-flowto</a></li><li>• <a href="#">aria-grabbed (state)</a></li><li>• <a href="#">aria-haspopup</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-hidden (state)</a></li><li>• <a href="#">aria-invalid (state)</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-keyshortcuts</a></li><li>• <a href="#">aria-label</a></li><li>• <a href="#">aria-labelledby</a></li><li>• <a href="#">aria-live</a></li><li>• <a href="#">aria-owns</a></li><li>• <a href="#">aria-relevant</a></li><li>• <a href="#">aria-roledescription</a></li></ul> |
| <i>Name From:</i>                | author                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <i>Accessible Name Required:</i> | False                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## doc-credit (role)

An acknowledgment of the source of integrated content from third-party sources, such as photos. Typically identifies the creator, copyright, and any restrictions on reuse.

## EXAMPLE 12

```
<p role="doc-credit">
 Page 62, Table 3.1 from <cite>“Economic Foundations of Cost-Effectiveness Analysis” by A. M. Garber and C. E. Phelps ...
</p>
```

*Characteristics of doc-credit:*

Characteristic	Value
<i>Superclass Role:</i>	<u>section</u>
<i>Related Concepts:</i>	EPUB <u>credit</u> [EPUB-SSV-11]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"><li>• <u>aria-atomic</u></li><li>• <u>aria-braillelabel</u></li><li>• <u>aria-brailleroledescription</u></li><li>• <u>aria-busy (state)</u></li><li>• <u>aria-controls</u></li><li>• <u>aria-current (state)</u></li><li>• <u>aria-describedby</u></li><li>• <u>aria-description</u></li><li>• <u>aria-details</u></li><li>• <u>aria-disabled (state)</u> (Global use deprecated in ARIA 1.2)</li><li>• <u>aria-dropeffect</u></li><li>• <u>aria-errormessage</u> (Global use deprecated in ARIA 1.2)</li><li>• <u>aria-flowto</u></li><li>• <u>aria-grabbed (state)</u></li><li>• <u>aria-haspopup</u> (Global use deprecated in ARIA 1.2)</li></ul>

Characteristic	Value
	<ul style="list-style-type: none"> <li>• <u>aria-hidden (state)</u></li> <li>• <u>aria-invalid (state)</u> (Global use deprecated in ARIA 1.2)</li> <li>• <u>aria-keyshortcuts</u></li> <li>• <u>aria-label</u></li> <li>• <u>aria-labelledby</u></li> <li>• <u>aria-live</u></li> <li>• <u>aria-owns</u></li> <li>• <u>aria-relevant</u></li> <li>• <u>aria-roledescription</u></li> </ul>
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	False

## doc-credits (role)

A collection of credits.

### EXAMPLE 13

```
<section role="doc-credits">
 <h2>Photo Credits</h2>
 ...
</section>
```

*Characteristics of doc-credits:*

Characteristic	Value
<i>Superclass Role:</i>	<u>landmark</u>

<i>Characteristic</i>	<i>Value</i>
<i>Related Concepts:</i>	EPUB <a href="#">credits</a> [ <a href="#">EPUB-SSV-11</a> ]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"><li>• <a href="#">aria-atomic</a></li><li>• <a href="#">aria-braillabel</a></li><li>• <a href="#">aria-brailleroledescription</a></li><li>• <a href="#">aria-busy (state)</a></li><li>• <a href="#">aria-controls</a></li><li>• <a href="#">aria-current (state)</a></li><li>• <a href="#">aria-describedby</a></li><li>• <a href="#">aria-description</a></li><li>• <a href="#">aria-details</a></li><li>• <a href="#">aria-disabled (state)</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-dropeffect</a></li><li>• <a href="#">aria-errormessage</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-flowto</a></li><li>• <a href="#">aria-grabbed (state)</a></li><li>• <a href="#">aria-haspopup</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-hidden (state)</a></li><li>• <a href="#">aria-invalid (state)</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-keyshortcuts</a></li><li>• <a href="#">aria-label</a></li><li>• <a href="#">aria-labelledby</a></li><li>• <a href="#">aria-live</a></li><li>• <a href="#">aria-owns</a></li></ul>

<i>Characteristic</i>	<i>Value</i>
	<ul style="list-style-type: none"> <li>• <a href="#"><u>aria-relevant</u></a></li> <li>• <a href="#"><u>aria-roledescription</u></a></li> </ul>
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	False

## doc-dedication (role)

An inscription at the front of the work, typically addressed in tribute to one or more persons close to the author.

### EXAMPLE 14

```
<p role="doc-dedication">To my family, without whom this would have never
```

*Characteristics of doc-dedication:*

<i>Characteristic</i>	<i>Value</i>
<i>Superclass Role:</i>	<a href="#"><u>section</u></a>
<i>Related Concepts:</i>	EPUB <a href="#"><u>dedication</u></a> [EPUB-SSV-II]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"> <li>• <a href="#"><u>aria-atomic</u></a></li> <li>• <a href="#"><u>aria-braillelabel</u></a></li> <li>• <a href="#"><u>aria-brailleroledescription</u></a></li> <li>• <a href="#"><u>aria-busy (state)</u></a></li> <li>• <a href="#"><u>aria-controls</u></a></li> <li>• <a href="#"><u>aria-current (state)</u></a></li> <li>• <a href="#"><u>aria-describedby</u></a></li> <li>• <a href="#"><u>aria-description</u></a></li> </ul>

<i>Characteristic</i>	<i>Value</i>
	<ul style="list-style-type: none"><li>• <a href="#"><u>aria-details</u></a></li><li>• <a href="#"><u>aria-disabled (state)</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-dropeffect</u></a></li><li>• <a href="#"><u>aria-errormessage</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-flowto</u></a></li><li>• <a href="#"><u>aria-grabbed (state)</u></a></li><li>• <a href="#"><u>aria-haspopup</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-hidden (state)</u></a></li><li>• <a href="#"><u>aria-invalid (state)</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-keyshortcuts</u></a></li><li>• <a href="#"><u>aria-label</u></a></li><li>• <a href="#"><u>aria-labelledby</u></a></li><li>• <a href="#"><u>aria-live</u></a></li><li>• <a href="#"><u>aria-owns</u></a></li><li>• <a href="#"><u>aria-relevant</u></a></li><li>• <a href="#"><u>aria-roledescription</u></a></li></ul>
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	False

## doc-endnote (role)

[Deprecated in DPUB-ARIA 1.1] One of a collection of notes that occur at the end of a work, or a section within it, that provides additional context to a referenced passage of text.

**NOTE**

The `doc-endnote` [role](#) was designed for use as a list item, but due to clarifications in the [WAI-ARIA](#) specification, it is not valid as a child of the [list](#) role. As the [doc-endnotes](#) role already identifies a section of endnotes, authors are instead advised to use the [list](#) and [listitem](#) roles when native HTML elements cannot be used to structure the entries.

*Characteristics of doc-endnote:*

<i>Characteristic</i>	<i>Value</i>
<i>Superclass Role:</i>	<a href="#">listitem</a>
<i>Related Concepts:</i>	EPUB <a href="#">rearnote</a> [ <a href="#">EPUB-SSV-11</a> ]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"><li>• <a href="#">aria-posinset</a></li><li>• <a href="#">aria-setsize</a></li><li>• <a href="#">aria-atomic</a></li><li>• <a href="#">aria-braillelabel</a></li><li>• <a href="#">aria-brailleroledescription</a></li><li>• <a href="#">aria-busy (state)</a></li><li>• <a href="#">aria-controls</a></li><li>• <a href="#">aria-current (state)</a></li><li>• <a href="#">aria-describedby</a></li><li>• <a href="#">aria-description</a></li><li>• <a href="#">aria-details</a></li><li>• <a href="#">aria-disabled (state)</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-dropeffect</a></li><li>• <a href="#">aria-errormessage</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-flowto</a></li><li>• <a href="#">aria-grabbed (state)</a></li></ul>

Characteristic	Value
	<ul style="list-style-type: none"><li>• <a href="#">aria-haspopup</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-hidden (state)</a></li><li>• <a href="#">aria-invalid (state)</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-keyshortcuts</a></li><li>• <a href="#">aria-label</a></li><li>• <a href="#">aria-labelledby</a></li><li>• <a href="#">aria-live</a></li><li>• <a href="#">aria-owns</a></li><li>• <a href="#">aria-relevant</a></li><li>• <a href="#">aria-roledescription</a></li></ul>
Name From:	author

## doc-endnotes (role)

A collection of notes at the end of a work or a section within it.

The element carrying the **doc-endnotes** [role](#) **MUST** contain at least one descendant list containing the endnotes (if the notes are subdivided, for example by chapter, the element would contain more than one list).

Authors **MUST NOT** declare elements with the role [doc-footnote](#) within the endnotes as it is redundant with the implied role.

Authors **MUST NOT** apply the **doc-endnotes** role directly to the list containing the endnotes.

### EXAMPLE 15

```
<section role="doc-endnotes">
 <h2>Notes</h2>

 <li id="6baa07af">
 <p>Additional results of this study can be found at ... </p>

 <li id="7b2c0555">
 <p>...</p>

 ...

</section>
```

### EXAMPLE 16

```
<section role="doc-endnotes">
 <h2>Notes</h2>
 <section>
 <h3>Canto I</h3>
 <div role="list">
 <div role="listitem">
 <p>1. The use of alliteration here ... </p>
 </div>
 ...
 </div>
 </section>
 ...
</section>
```

*Characteristics of doc-endnotes:*

<i>Characteristic</i>	<i>Value</i>
<i>Superclass Role:</i>	<u>landmark</u>
<i>Related Concepts:</i>	EPUB <u>rearnotes</u> [EPUB-SSV-11]

<i>Characteristic</i>	<i>Value</i>
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"><li>• <a href="#"><u>aria-atomic</u></a></li><li>• <a href="#"><u>aria-braillelabel</u></a></li><li>• <a href="#"><u>aria-brailleroledescription</u></a></li><li>• <a href="#"><u>aria-busy (state)</u></a></li><li>• <a href="#"><u>aria-controls</u></a></li><li>• <a href="#"><u>aria-current (state)</u></a></li><li>• <a href="#"><u>aria-describedby</u></a></li><li>• <a href="#"><u>aria-description</u></a></li><li>• <a href="#"><u>aria-details</u></a></li><li>• <a href="#"><u>aria-disabled (state)</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-dropeffect</u></a></li><li>• <a href="#"><u>aria-errormessage</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-flowto</u></a></li><li>• <a href="#"><u>aria-grabbed (state)</u></a></li><li>• <a href="#"><u>aria-haspopup</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-hidden (state)</u></a></li><li>• <a href="#"><u>aria-invalid (state)</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-keyshortcuts</u></a></li><li>• <a href="#"><u>aria-label</u></a></li><li>• <a href="#"><u>aria-labelledby</u></a></li><li>• <a href="#"><u>aria-live</u></a></li><li>• <a href="#"><u>aria-owns</u></a></li><li>• <a href="#"><u>aria-relevant</u></a></li></ul>

Characteristic	Value
	<ul style="list-style-type: none"> <li>• <a href="#">aria-roledescription</a></li> </ul>
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	False

## doc-epigraph (role)

A quotation set at the start of the work or a section that establishes the theme or sets the mood.

### EXAMPLE 17

```
<blockquote role="doc-epigraph">
 <p>"Would you tell me please, which way I ought to go from here?"</p>
 <p>"That depends a good deal on where you want to get to," said the cat.
</blockquote>
```

*Characteristics of doc-epigraph:*

Characteristic	Value
<i>Superclass Role:</i>	<a href="#">section</a>
<i>Related Concepts:</i>	EPUB <a href="#">epigraph</a> [ <a href="#">EPUB-SSV-11</a> ]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"> <li>• <a href="#">aria-atomic</a></li> <li>• <a href="#">aria-braillelabel</a></li> <li>• <a href="#">aria-brailleroledescription</a></li> <li>• <a href="#">aria-busy (state)</a></li> <li>• <a href="#">aria-controls</a></li> <li>• <a href="#">aria-current (state)</a></li> <li>• <a href="#">aria-describedby</a></li> </ul>

<i>Characteristic</i>	<i>Value</i>
	<ul style="list-style-type: none"><li>• <a href="#"><u>aria-description</u></a></li><li>• <a href="#"><u>aria-details</u></a></li><li>• <a href="#"><u>aria-disabled (state)</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-dropeffect</u></a></li><li>• <a href="#"><u>aria-errormessage</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-flowto</u></a></li><li>• <a href="#"><u>aria-grabbed (state)</u></a></li><li>• <a href="#"><u>aria-haspopup</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-hidden (state)</u></a></li><li>• <a href="#"><u>aria-invalid (state)</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-keyshortcuts</u></a></li><li>• <a href="#"><u>aria-label</u></a></li><li>• <a href="#"><u>aria-labelledby</u></a></li><li>• <a href="#"><u>aria-live</u></a></li><li>• <a href="#"><u>aria-owns</u></a></li><li>• <a href="#"><u>aria-relevant</u></a></li><li>• <a href="#"><u>aria-roledescription</u></a></li></ul>
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	False

## doc-epilogue (role)

A concluding section of narrative that wraps up or comments on the actions and events of the work, typically from a future perspective.

### EXAMPLE 18

```
<section role="doc-epilogue">
 <header>
 <h2>Epilogue</h2>
 <p>SPOKEN BY PROSPERO</p>
 </header>
 <p>Now my charms are all o'erthrown, ...</p>
 ...
</section>
```

*Characteristics of doc-epilogue:*

<i>Characteristic</i>	<i>Value</i>
<i>Superclass Role:</i>	<u>landmark</u>
<i>Related Concepts:</i>	EPUB <u>epilogue</u> [EPUB-SSV-11]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"><li><u>aria-atomic</u></li><li><u>aria-braillelabel</u></li><li><u>aria-brailleroledescription</u></li><li><u>aria-busy (state)</u></li><li><u>aria-controls</u></li><li><u>aria-current (state)</u></li><li><u>aria-describedby</u></li><li><u>aria-description</u></li><li><u>aria-details</u></li><li><u>aria-disabled (state)</u> (Global use deprecated in ARIA 1.2)</li><li><u>aria-dropeffect</u></li><li><u>aria-errormessage</u> (Global use deprecated in ARIA 1.2)</li><li><u>aria-flowto</u></li></ul>

Characteristic	Value
	<ul style="list-style-type: none"><li>• <a href="#">aria-grabbed (state)</a></li><li>• <a href="#">aria-haspopup</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-hidden (state)</a></li><li>• <a href="#">aria-invalid (state)</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-keyshortcuts</a></li><li>• <a href="#">aria-label</a></li><li>• <a href="#">aria-labelledby</a></li><li>• <a href="#">aria-live</a></li><li>• <a href="#">aria-owns</a></li><li>• <a href="#">aria-relevant</a></li><li>• <a href="#">aria-roledescription</a></li></ul>
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	False

## doc-errata (role)

A set of corrections discovered after initial publication of the work, sometimes referred to as corrigenda.

### EXAMPLE 19

```
<section role="doc-errata">
 <h2>Corrections</h2>
 ...
</section>
```

*Characteristics of doc-errata:*

<i>Characteristic</i>	<i>Value</i>
<i>Superclass Role:</i>	<u>landmark</u>
<i>Related Concepts:</i>	EPUB <a href="#">errata</a> [ <a href="#">EPUB-SSV-11</a> ]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"><li>• <a href="#">aria-atomic</a></li><li>• <a href="#">aria-braillelabel</a></li><li>• <a href="#">aria-brailleroledescription</a></li><li>• <a href="#">aria-busy (state)</a></li><li>• <a href="#">aria-controls</a></li><li>• <a href="#">aria-current (state)</a></li><li>• <a href="#">aria-describedby</a></li><li>• <a href="#">aria-description</a></li><li>• <a href="#">aria-details</a></li><li>• <a href="#">aria-disabled (state)</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-dropeffect</a></li><li>• <a href="#">aria-errormessage</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-flowto</a></li><li>• <a href="#">aria-grabbed (state)</a></li><li>• <a href="#">aria-haspopup</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-hidden (state)</a></li><li>• <a href="#">aria-invalid (state)</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-keyshortcuts</a></li><li>• <a href="#">aria-label</a></li><li>• <a href="#">aria-labelledby</a></li></ul>

Characteristic	Value
	<ul style="list-style-type: none"> <li>• <a href="#">aria-live</a></li> <li>• <a href="#">aria-owns</a></li> <li>• <a href="#">aria-relevant</a></li> <li>• <a href="#">aria-roledescription</a></li> </ul>
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	False

## doc-example (role)

An illustration of a key concept of the work, such as a code listing, case study or problem.

### EXAMPLE 20

```
<figure role="doc-example">
 <figcaption>Example 1 – Hello World!</figcaption>
 ...
</figure>
```

*Characteristics of doc-example:*

Characteristic	Value
<i>Superclass Role:</i>	<a href="#">figure</a>
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"> <li>• <a href="#">aria-atomic</a></li> <li>• <a href="#">aria-braillelabel</a></li> <li>• <a href="#">aria-brailleroledescription</a></li> <li>• <a href="#">aria-busy (state)</a></li> <li>• <a href="#">aria-controls</a></li> <li>• <a href="#">aria-current (state)</a></li> </ul>

<i>Characteristic</i>	<i>Value</i>
	<ul style="list-style-type: none"><li>• <a href="#"><u>aria-describedby</u></a></li><li>• <a href="#"><u>aria-description</u></a></li><li>• <a href="#"><u>aria-details</u></a></li><li>• <a href="#"><u>aria-disabled (state)</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-dropeffect</u></a></li><li>• <a href="#"><u>aria-errormessage</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-flowto</u></a></li><li>• <a href="#"><u>aria-grabbed (state)</u></a></li><li>• <a href="#"><u>aria-haspopup</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-hidden (state)</u></a></li><li>• <a href="#"><u>aria-invalid (state)</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-keyshortcuts</u></a></li><li>• <a href="#"><u>aria-label</u></a></li><li>• <a href="#"><u>aria-labelledby</u></a></li><li>• <a href="#"><u>aria-live</u></a></li><li>• <a href="#"><u>aria-owns</u></a></li><li>• <a href="#"><u>aria-relevant</u></a></li><li>• <a href="#"><u>aria-roledescription</u></a></li></ul>
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	False

**doc-footnote (role)**

Ancillary information, such as a citation or commentary, that provides additional context to a referenced passage of text.

The `doc-footnote` [role](#) is only for representing individual notes that occur within the body of a work. For collections of notes that occur at the end of a section, see [doc-endnotes](#).

### EXAMPLE 21

```
<aside id="6baa07af" role="doc-footnote">
 * Additional results of this study and similar studies can be found at
</aside>
```

*Characteristics of doc-footnote:*

<i>Characteristic</i>	<i>Value</i>
<i>Superclass Role:</i>	<a href="#">section</a>
<i>Related Concepts:</i>	EPUB <a href="#">footnote</a> [ <a href="#">EPUB-SSV-11</a> ]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"><li><a href="#">aria-atomic</a></li><li><a href="#">aria-braillelabel</a></li><li><a href="#">aria-brailleroledescription</a></li><li><a href="#">aria-busy (state)</a></li><li><a href="#">aria-controls</a></li><li><a href="#">aria-current (state)</a></li><li><a href="#">aria-describedby</a></li><li><a href="#">aria-description</a></li><li><a href="#">aria-details</a></li><li><a href="#">aria-disabled (state)</a> (Global use deprecated in ARIA 1.2)</li><li><a href="#">aria-dropeffect</a></li><li><a href="#">aria-errormessage</a> (Global use deprecated in ARIA 1.2)</li></ul>

Characteristic	Value
	<ul style="list-style-type: none"> <li>• <a href="#"><u>aria-flowto</u></a></li> <li>• <a href="#"><u>aria-grabbed (state)</u></a></li> <li>• <a href="#"><u>aria-haspopup</u></a> (Global use deprecated in ARIA 1.2)</li> <li>• <a href="#"><u>aria-hidden (state)</u></a></li> <li>• <a href="#"><u>aria-invalid (state)</u></a> (Global use deprecated in ARIA 1.2)</li> <li>• <a href="#"><u>aria-keyshortcuts</u></a></li> <li>• <a href="#"><u>aria-label</u></a></li> <li>• <a href="#"><u>aria-labelledby</u></a></li> <li>• <a href="#"><u>aria-live</u></a></li> <li>• <a href="#"><u>aria-owns</u></a></li> <li>• <a href="#"><u>aria-relevant</u></a></li> <li>• <a href="#"><u>aria-roledescription</u></a></li> </ul>
<i>Name From:</i>	author

## doc-foreword (role)

An introductory section that precedes the work, typically not written by the author of the work.

### EXAMPLE 22

```
<section role="doc-foreword">
 <h2>Foreword</h2>
 ...
</section>
```

*Characteristics of doc-foreword:*

Characteristic	Value

<i>Characteristic</i>	<i>Value</i>
<i>Superclass Role:</i>	<a href="#">landmark</a>
<i>Related Concepts:</i>	EPUB <a href="#">foreword</a> [ <a href="#">EPUB-SSV-11</a> ]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"><li>• <a href="#">aria-atomic</a></li><li>• <a href="#">aria-braillelabel</a></li><li>• <a href="#">aria-brailleroledescription</a></li><li>• <a href="#">aria-busy (state)</a></li><li>• <a href="#">aria-controls</a></li><li>• <a href="#">aria-current (state)</a></li><li>• <a href="#">aria-describedby</a></li><li>• <a href="#">aria-description</a></li><li>• <a href="#">aria-details</a></li><li>• <a href="#">aria-disabled (state)</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-dropeffect</a></li><li>• <a href="#">aria-errormessage</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-flowto</a></li><li>• <a href="#">aria-grabbed (state)</a></li><li>• <a href="#">aria-haspopup</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-hidden (state)</a></li><li>• <a href="#">aria-invalid (state)</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-keyshortcuts</a></li><li>• <a href="#">aria-label</a></li><li>• <a href="#">aria-labelledby</a></li><li>• <a href="#">aria-live</a></li></ul>

Characteristic	Value
	<ul style="list-style-type: none"><li>• <a href="#"><u>aria-owns</u></a></li><li>• <a href="#"><u>aria-relevant</u></a></li><li>• <a href="#"><u>aria-roledescription</u></a></li></ul>
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	False

## doc-glossary (role)

A brief dictionary of new, uncommon, or specialized terms used in the content.

The structure of a glossary *SHOULD* make it possible for end users to identify each term and associated definition (e.g., using the [HTML] `dfn` element).

### EXAMPLE 23

```
<section role="doc-glossary" aria-label="glossary">
 <dl>
 ...
 <dt id="bcc0f155"><dfn>Credit default swap</dfn></dt>
 <dd>
 A credit default swap effectively insures against
 default by a borrower.
 </dd>
 ...
 </dl>
</section>
```

## EXAMPLE 24

```
<section role="doc-glossary" aria-labelledby="glosshd">
 <h2 id="glosshd">Glossay of Technical Terms</h2>

 <li id="gtt00110001"><dfn>algorithm</dfn> A set of rules ...
 ...

</section>
```

*Characteristics of doc-glossary:*

<i>Characteristic</i>	<i>Value</i>
<i>Superclass Role:</i>	<u>landmark</u>
<i>Related Concepts:</i>	EPUB <u>glossary</u> [ <a href="#">EPUB-SSV-11</a> ]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"><li><u>aria-atomic</u></li><li><u>aria-braillelabel</u></li><li><u>aria-brailleroledescription</u></li><li><u>aria-busy (state)</u></li><li><u>aria-controls</u></li><li><u>aria-current (state)</u></li><li><u>aria-describedby</u></li><li><u>aria-description</u></li><li><u>aria-details</u></li><li><u>aria-disabled (state)</u> (Global use deprecated in ARIA 1.2)</li><li><u>aria-dropeffect</u></li><li><u>aria-errormessage</u> (Global use deprecated in ARIA 1.2)</li><li><u>aria-flowto</u></li></ul>

Characteristic	Value
	<ul style="list-style-type: none"> <li>• <a href="#">aria-grabbed (state)</a></li> <li>• <a href="#">aria-haspopup</a> (Global use deprecated in ARIA 1.2)</li> <li>• <a href="#">aria-hidden (state)</a></li> <li>• <a href="#">aria-invalid (state)</a> (Global use deprecated in ARIA 1.2)</li> <li>• <a href="#">aria-keyshortcuts</a></li> <li>• <a href="#">aria-label</a></li> <li>• <a href="#">aria-labelledby</a></li> <li>• <a href="#">aria-live</a></li> <li>• <a href="#">aria-owns</a></li> <li>• <a href="#">aria-relevant</a></li> <li>• <a href="#">aria-roledescription</a></li> </ul>
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	False

## doc-glossref (role)

A reference to a glossary definition.

### EXAMPLE 25

```

<p>
 This is indicated in the cost of a
 credit default swap ...
</p>

```

*Characteristics of doc-glossref:*

Characteristic	Value

<i>Characteristic</i>	<i>Value</i>
<i>Superclass Role:</i>	<a href="#">link</a>
<i>Related Concepts:</i>	EPUB <a href="#">glossref</a> [EPUB-SSV-11]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"><li>• <a href="#">aria-disabled (state)</a></li><li>• <a href="#">aria-expanded (state)</a></li><li>• <a href="#">aria-haspopup</a></li><li>• <a href="#">aria-atomic</a></li><li>• <a href="#">aria-braillelabel</a></li><li>• <a href="#">aria-brailleroledescription</a></li><li>• <a href="#">aria-busy (state)</a></li><li>• <a href="#">aria-controls</a></li><li>• <a href="#">aria-current (state)</a></li><li>• <a href="#">aria-describedby</a></li><li>• <a href="#">aria-description</a></li><li>• <a href="#">aria-details</a></li><li>• <a href="#">aria-disabled (state)</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-dropeffect</a></li><li>• <a href="#">aria-errormessage</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-flowto</a></li><li>• <a href="#">aria-grabbed (state)</a></li><li>• <a href="#">aria-haspopup</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-hidden (state)</a></li><li>• <a href="#">aria-invalid (state)</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-keyshortcuts</a></li></ul>

Characteristic	Value
	<ul style="list-style-type: none"><li>• <u>aria-label</u></li><li>• <u>aria-labelledby</u></li><li>• <u>aria-live</u></li><li>• <u>aria-owns</u></li><li>• <u>aria-relevant</u></li><li>• <u>aria-roledescription</u></li></ul>
<i>Name From:</i>	<ul style="list-style-type: none"><li>• contents</li><li>• author</li></ul>
<i>Accessible Name Required:</i>	True

## doc-index (role)

A navigational aid that provides a detailed list of links to key subjects, names and other important topics covered in the work.

### EXAMPLE 26

```
<section role="doc-index">
 <h2>Index</h2>
 <section>
 <h2>A</h2>

 A/B testing, 230
 ...

 </section>
 ...
</section>
```

*Characteristics of doc-index:*

<i>Characteristic</i>	<i>Value</i>
<i>Superclass Role:</i>	<a href="#"><u>navigation</u></a>
<i>Related Concepts:</i>	EPUB <a href="#"><u>index</u></a> [ <a href="#"><u>EPUB-SSV-11</u></a> ]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"><li>• <a href="#"><u>aria-atomic</u></a></li><li>• <a href="#"><u>aria-braillelabel</u></a></li><li>• <a href="#"><u>aria-brailleroledescription</u></a></li><li>• <a href="#"><u>aria-busy (state)</u></a></li><li>• <a href="#"><u>aria-controls</u></a></li><li>• <a href="#"><u>aria-current (state)</u></a></li><li>• <a href="#"><u>aria-describedby</u></a></li><li>• <a href="#"><u>aria-description</u></a></li><li>• <a href="#"><u>aria-details</u></a></li><li>• <a href="#"><u>aria-disabled (state)</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-dropeffect</u></a></li><li>• <a href="#"><u>aria-errormessage</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-flowto</u></a></li><li>• <a href="#"><u>aria-grabbed (state)</u></a></li><li>• <a href="#"><u>aria-haspopup</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-hidden (state)</u></a></li><li>• <a href="#"><u>aria-invalid (state)</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-keyshortcuts</u></a></li><li>• <a href="#"><u>aria-label</u></a></li><li>• <a href="#"><u>aria-labelledby</u></a></li></ul>

Characteristic	Value
	<ul style="list-style-type: none"> <li>• <a href="#">aria-live</a></li> <li>• <a href="#">aria-owns</a></li> <li>• <a href="#">aria-relevant</a></li> <li>• <a href="#">aria-roledescription</a></li> </ul>
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	False

## doc-introduction (role)

A preliminary section that typically introduces the scope or nature of the work.

### EXAMPLE 27

```
<section role="doc-introduction">
 <p>Everyone has some experience with marketing ... </p>
</section>
```

*Characteristics of doc-introduction:*

Characteristic	Value
<i>Superclass Role:</i>	<a href="#">landmark</a>
<i>Related Concepts:</i>	EPUB <a href="#">introduction</a> [ <a href="#">EPUB-SSV-11</a> ]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"> <li>• <a href="#">aria-atomic</a></li> <li>• <a href="#">aria-braillelabel</a></li> <li>• <a href="#">aria-brailleroledescription</a></li> <li>• <a href="#">aria-busy (state)</a></li> <li>• <a href="#">aria-controls</a></li> </ul>

<i>Characteristic</i>	<i>Value</i>
	<ul style="list-style-type: none"><li>• <a href="#"><u>aria-current (state)</u></a></li><li>• <a href="#"><u>aria-describedby</u></a></li><li>• <a href="#"><u>aria-description</u></a></li><li>• <a href="#"><u>aria-details</u></a></li><li>• <a href="#"><u>aria-disabled (state)</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-dropeffect</u></a></li><li>• <a href="#"><u>aria-errormessage</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-flowto</u></a></li><li>• <a href="#"><u>aria-grabbed (state)</u></a></li><li>• <a href="#"><u>aria-haspopup</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-hidden (state)</u></a></li><li>• <a href="#"><u>aria-invalid (state)</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-keyshortcuts</u></a></li><li>• <a href="#"><u>aria-label</u></a></li><li>• <a href="#"><u>aria-labelledby</u></a></li><li>• <a href="#"><u>aria-live</u></a></li><li>• <a href="#"><u>aria-owns</u></a></li><li>• <a href="#"><u>aria-relevant</u></a></li><li>• <a href="#"><u>aria-roledescription</u></a></li></ul>
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	False

[\*\*doc-noteref \(role\)\*\*](#)

A reference to a footnote or endnote, typically appearing as a superscripted number or symbol in the main body of text.

### EXAMPLE 28

```
<p> ... as studies have shown.
```

*Characteristics of doc-noteref:*

Characteristic	Value
<i>Superclass Role:</i>	<u>link</u>
<i>Related Concepts:</i>	EPUB <u>noteref</u> [EPUB-SSV-11]

*Inherited States and Properties:*

- aria-disabled (state)
- aria-expanded (state)
- aria-haspopup
- aria-atomic
- aria-braillelabel
- aria-brailleroledescription
- aria-busy (state)
- aria-controls
- aria-current (state)
- aria-describedby
- aria-description
- aria-details
- aria-disabled (state) (Global use deprecated in ARIA 1.2)
- aria-dropeffect
- aria-errormessage (Global use deprecated in ARIA 1.2)

<i>Characteristic</i>	<i>Value</i>
	<ul style="list-style-type: none"><li>• <a href="#"><u>aria-flowto</u></a></li><li>• <a href="#"><u>aria-grabbed (state)</u></a></li><li>• <a href="#"><u>aria-haspopup</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-hidden (state)</u></a></li><li>• <a href="#"><u>aria-invalid (state)</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-keyshortcuts</u></a></li><li>• <a href="#"><u>aria-label</u></a></li><li>• <a href="#"><u>aria-labelledby</u></a></li><li>• <a href="#"><u>aria-live</u></a></li><li>• <a href="#"><u>aria-owns</u></a></li><li>• <a href="#"><u>aria-relevant</u></a></li><li>• <a href="#"><u>aria-roledescription</u></a></li></ul>
<i>Name From:</i>	<ul style="list-style-type: none"><li>• contents</li><li>• author</li></ul>
<i>Accessible Name Required:</i>	True

## doc-notice (role)

Notifies the user of consequences that might arise from an action or event. Examples include warnings, cautions and dangers.

### EXAMPLE 29

```
<section role="doc-notice">

 <p>Just because you can include a font doesn't mean you should.
 Think carefully about readability. Also, be respectful of intellect.
 There are many excellent free open-source fonts available.</p>
</section>
```

Authors *SHOULD* include a label when the notice needs to be navigable to.

### EXAMPLE 30

```
<div role="doc-notice" aria-label="Explosion Risk">
 <p>Danger! Mixing reactive materials may cause an explosion.</p>
</div>
```

*Characteristics of doc-notice:*

<i>Characteristic</i>	<i>Value</i>
<i>Superclass Role:</i>	<a href="#">note</a>
<i>Related Concepts:</i>	EPUB <a href="#">notice</a> [ <a href="#">EPUB-SSV-II</a> ]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"><li><a href="#">aria-atomic</a></li><li><a href="#">aria-braillelabel</a></li><li><a href="#">aria-brailleroledescription</a></li><li><a href="#">aria-busy (state)</a></li><li><a href="#">aria-controls</a></li><li><a href="#">aria-current (state)</a></li><li><a href="#">aria-describedby</a></li><li><a href="#">aria-description</a></li><li><a href="#">aria-details</a></li></ul>

Characteristic	Value
	<ul style="list-style-type: none"><li>• <a href="#">aria-disabled (state)</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-dropeffect</a></li><li>• <a href="#">aria-errormessage</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-flowto</a></li><li>• <a href="#">aria-grabbed (state)</a></li><li>• <a href="#">aria-haspopup</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-hidden (state)</a></li><li>• <a href="#">aria-invalid (state)</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-keyshortcuts</a></li><li>• <a href="#">aria-label</a></li><li>• <a href="#">aria-labelledby</a></li><li>• <a href="#">aria-live</a></li><li>• <a href="#">aria-owns</a></li><li>• <a href="#">aria-relevant</a></li><li>• <a href="#">aria-roledescription</a></li></ul>
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	False

## doc-pagebreak (role)

A separator denoting the position before which a break occurs between two contiguous pages in a statically paginated version of the content.

Page break locators are also commonly used to provide static markers in purely digital publications (i.e., where no statically paginated equivalent exists). These markers provide consistent navigation

regardless of differences in font and screen size that can otherwise affect the dynamic pagination of the content.

Authors *MUST* ensure the name of the page break is an end user-consumable page number that identifies the page that is beginning so that assistive technologies can announce the page as needed (e.g., in a command to identify the current page).

The page break locator *MUST* precede the content of the page it identifies. If a page includes a header ([doc-pageheader](#)), the page break locator *SHOULD* be located before it, even if the header includes a visible page number. The page break locator *MAY* be used with the page number in a page header if the number precedes all other content in the header.

When reproducing page break locators from a static page equivalent, it is sometimes the case that words are hyphenated across pages. When this happens, the page break locator *SHOULD* be placed either before or after the word to ensure it does not interfere with text-to-speech playback.

### EXAMPLE 31

The following example shows three equivalent patterns for marking up page breaks in digital publications. Either the `aria-label` or `title` attributes can be used to assign the accessible name when an explicit page number is not provided.

```
<hr id="pg04" role="doc-pagebreak" aria-label="4"/>

<div id="pg04" role="doc-pagebreak">4</div>
```

#### *Characteristics of doc-pagebreak:*

<i>Characteristic</i>	<i>Value</i>
<i>Superclass Role:</i>	<a href="#">separator</a>
<i>Related Concepts:</i>	EPUB <a href="#">pagebreak</a> [ <a href="#">EPUB-SSV-11</a> ]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"><li>• <a href="#">aria-valuenow</a> (<b>required</b>)</li><li>• <a href="#">aria-disabled</a> (<a href="#">state</a>)</li><li>• <a href="#">aria-orientation</a></li></ul>

<i>Characteristic</i>	<i>Value</i>
	<ul style="list-style-type: none"><li>• <a href="#"><u>aria-valuemax</u></a></li><li>• <a href="#"><u>aria-valuemin</u></a></li><li>• <a href="#"><u>aria-valuetext</u></a></li><li>• <a href="#"><u>aria-atomic</u></a></li><li>• <a href="#"><u>aria-braillelabel</u></a></li><li>• <a href="#"><u>aria-brailleroledescription</u></a></li><li>• <a href="#"><u>aria-busy (state)</u></a></li><li>• <a href="#"><u>aria-controls</u></a></li><li>• <a href="#"><u>aria-current (state)</u></a></li><li>• <a href="#"><u>aria-describedby</u></a></li><li>• <a href="#"><u>aria-description</u></a></li><li>• <a href="#"><u>aria-details</u></a></li><li>• <a href="#"><u>aria-disabled (state)</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-dropeffect</u></a></li><li>• <a href="#"><u>aria-errormessage</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-flowto</u></a></li><li>• <a href="#"><u>aria-grabbed (state)</u></a></li><li>• <a href="#"><u>aria-haspopup</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-hidden (state)</u></a></li><li>• <a href="#"><u>aria-invalid (state)</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-keyshortcuts</u></a></li><li>• <a href="#"><u>aria-label</u></a></li><li>• <a href="#"><u>aria-labelledby</u></a></li><li>• <a href="#"><u>aria-live</u></a></li></ul>

<i>Characteristic</i>	<i>Value</i>
	<ul style="list-style-type: none"><li>• <a href="#"><u>aria-owns</u></a></li><li>• <a href="#"><u>aria-relevant</u></a></li><li>• <a href="#"><u>aria-roledescription</u></a></li><li>• <a href="#"><u>aria-atomic</u></a></li><li>• <a href="#"><u>aria-braillelabel</u></a></li><li>• <a href="#"><u>aria-brailleroledescription</u></a></li><li>• <a href="#"><u>aria-busy (state)</u></a></li><li>• <a href="#"><u>aria-controls</u></a></li><li>• <a href="#"><u>aria-current (state)</u></a></li><li>• <a href="#"><u>aria-describedby</u></a></li><li>• <a href="#"><u>aria-description</u></a></li><li>• <a href="#"><u>aria-details</u></a></li><li>• <a href="#"><u>aria-disabled (state)</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-dropeffect</u></a></li><li>• <a href="#"><u>aria-errormessage</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-flowto</u></a></li><li>• <a href="#"><u>aria-grabbed (state)</u></a></li><li>• <a href="#"><u>aria-haspopup</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-hidden (state)</u></a></li><li>• <a href="#"><u>aria-invalid (state)</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-keyshortcuts</u></a></li><li>• <a href="#"><u>aria-label</u></a></li><li>• <a href="#"><u>aria-labelledby</u></a></li><li>• <a href="#"><u>aria-live</u></a></li></ul>

Characteristic	Value
	<ul style="list-style-type: none"><li>• <a href="#"><u>aria-owns</u></a></li><li>• <a href="#"><u>aria-relevant</u></a></li><li>• <a href="#"><u>aria-roledescription</u></a></li></ul>
<i>Name From:</i>	<ul style="list-style-type: none"><li>• contents</li><li>• author</li></ul>
<i>Accessible Name Required:</i>	True
<i>Children Presentational:</i>	True

## doc-pagefooter (role)

A section of text appearing at the bottom of a page that provides context about the current work and location within it. The page footer is distinct from the body text and normally follows a repeating template that contains (possibly truncated) items such as the document title, current section, author name(s), and page number.

The **doc-pagefooter** role *MUST* be used on every instance of the page footer.

The **doc-pagefooter** *MUST NOT* contain the [doc-pagebreak](#).

The **doc-pagefooter** *MUST NOT* contain footnotes ([doc-footnote](#)).

Assistive technologies *MAY* allow the user to read the document content continuously without interruption from the page footer.

### EXAMPLE 32

```
<section role="doc-pagefooter">
 <div>Leo Tolstoy</div>
 <div>321</div>
 ...
</section>
```

*Characteristics of doc-pagefooter:*

<i>Characteristic</i>	<i>Value</i>
<i>Superclass Role:</i>	<u>section</u>
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"><li>• <u>aria-atomic</u></li><li>• <u>aria-braillelabel</u></li><li>• <u>aria-brailleroledescription</u></li><li>• <u>aria-busy (state)</u></li><li>• <u>aria-controls</u></li><li>• <u>aria-current (state)</u></li><li>• <u>aria-describedby</u></li><li>• <u>aria-description</u></li><li>• <u>aria-details</u></li><li>• <u>aria-disabled (state)</u> (Global use deprecated in ARIA 1.2)</li><li>• <u>aria-dropeffect</u></li><li>• <u>aria-errormessage</u> (Global use deprecated in ARIA 1.2)</li><li>• <u>aria-flowto</u></li><li>• <u>aria-grabbed (state)</u></li><li>• <u>aria-haspopup</u> (Global use deprecated in ARIA 1.2)</li><li>• <u>aria-hidden (state)</u></li><li>• <u>aria-invalid (state)</u> (Global use deprecated in ARIA 1.2)</li><li>• <u>aria-keyshortcuts</u></li><li>• <u>aria-label</u></li><li>• <u>aria-labelledby</u></li><li>• <u>aria-live</u></li></ul>

Characteristic	Value
	<ul style="list-style-type: none"> <li>• <u>aria-owns</u></li> <li>• <u>aria-relevant</u></li> <li>• <u>aria-roledescription</u></li> </ul>
<i>Name From:</i>	prohibited
<i>Accessible Name Required:</i>	False

## doc-pageheader (role)

A section of text appearing at the top of a page that provides context about the current work and location within it. The page header is distinct from the body text and normally follows a repeating template that contains (possibly truncated) items such as the document title, current section, author name(s), and page number.

The `doc-pageheader` role *MUST* be used on every instance of the page header.

Assistive technologies *MAY* allow the user to read the document content continuously without interruption from the page header.

### EXAMPLE 33

```
<section role="doc-pageheader">
 <div>War and Peace</div>
 <div>321</div>
 ...
</section>
```

*Characteristics of doc-pageheader:*

Characteristic	Value
<i>Superclass Role:</i>	<u>section</u>

<i>Characteristic</i>	<i>Value</i>
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"><li>• <a href="#"><u>aria-atomic</u></a></li><li>• <a href="#"><u>aria-braillelabel</u></a></li><li>• <a href="#"><u>aria-brailleroledescription</u></a></li><li>• <a href="#"><u>aria-busy (state)</u></a></li><li>• <a href="#"><u>aria-controls</u></a></li><li>• <a href="#"><u>aria-current (state)</u></a></li><li>• <a href="#"><u>aria-describedby</u></a></li><li>• <a href="#"><u>aria-description</u></a></li><li>• <a href="#"><u>aria-details</u></a></li><li>• <a href="#"><u>aria-disabled (state)</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-dropeffect</u></a></li><li>• <a href="#"><u>aria-errormessage</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-flowto</u></a></li><li>• <a href="#"><u>aria-grabbed (state)</u></a></li><li>• <a href="#"><u>aria-haspopup</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-hidden (state)</u></a></li><li>• <a href="#"><u>aria-invalid (state)</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-keyshortcuts</u></a></li><li>• <a href="#"><u>aria-label</u></a></li><li>• <a href="#"><u>aria-labelledby</u></a></li><li>• <a href="#"><u>aria-live</u></a></li><li>• <a href="#"><u>aria-owns</u></a></li><li>• <a href="#"><u>aria-relevant</u></a></li></ul>

Characteristic	Value
	<ul style="list-style-type: none"> <li>• <a href="#"><u>aria-roledescription</u></a></li> </ul>
<i>Name From:</i>	prohibited
<i>Accessible Name Required:</i>	False

## doc-pagelist (role)

A navigational aid that provides a list of links to the page breaks in the content.

### EXAMPLE 34

```
<nav role="doc-pagelist">
 <h2>Pages</h2>

 1
 2
 ...

</nav>
```

*Characteristics of doc-pagelist:*

Characteristic	Value
<i>Superclass Role:</i>	<a href="#"><u>navigation</u></a>
<i>Related Concepts:</i>	EPUB <a href="#"><u>page-list</u></a> [ <a href="#"><u>EPUB-SSV-11</u></a> ]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"> <li>• <a href="#"><u>aria-atomic</u></a></li> <li>• <a href="#"><u>aria-braillelabel</u></a></li> <li>• <a href="#"><u>aria-brailleroledescription</u></a></li> <li>• <a href="#"><u>aria-busy (state)</u></a></li> <li>• <a href="#"><u>aria-controls</u></a></li> </ul>

<i>Characteristic</i>	<i>Value</i>
	<ul style="list-style-type: none"><li>• <a href="#"><u>aria-current (state)</u></a></li><li>• <a href="#"><u>aria-describedby</u></a></li><li>• <a href="#"><u>aria-description</u></a></li><li>• <a href="#"><u>aria-details</u></a></li><li>• <a href="#"><u>aria-disabled (state)</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-dropeffect</u></a></li><li>• <a href="#"><u>aria-errormessage</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-flowto</u></a></li><li>• <a href="#"><u>aria-grabbed (state)</u></a></li><li>• <a href="#"><u>aria-haspopup</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-hidden (state)</u></a></li><li>• <a href="#"><u>aria-invalid (state)</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-keyshortcuts</u></a></li><li>• <a href="#"><u>aria-label</u></a></li><li>• <a href="#"><u>aria-labelledby</u></a></li><li>• <a href="#"><u>aria-live</u></a></li><li>• <a href="#"><u>aria-owns</u></a></li><li>• <a href="#"><u>aria-relevant</u></a></li><li>• <a href="#"><u>aria-roledescription</u></a></li></ul>
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	False

doc-part (role)

A major structural division in a work that contains a set of related sections dealing with a particular subject, narrative arc, or similar encapsulated theme.

### EXAMPLE 35

```
<section role="doc-part">
 <h2>Part One</h2>
 <section role="doc-chapter">
 <h2>Chapter 1</h2>
 ...
 </section>
 ...
</section>
```

*Characteristics of doc-part:*

<i>Characteristic</i>	<i>Value</i>
<i>Superclass Role:</i>	<u>landmark</u>
<i>Related Concepts:</i>	EPUB <u>part</u> [ <a href="#">EPUB-SSV-II</a> ]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"><li><u>aria-atomic</u></li><li><u>aria-braillelabel</u></li><li><u>aria-brailleroledescription</u></li><li><u>aria-busy (state)</u></li><li><u>aria-controls</u></li><li><u>aria-current (state)</u></li><li><u>aria-describedby</u></li><li><u>aria-description</u></li><li><u>aria-details</u></li><li><u>aria-disabled (state)</u> (Global use deprecated in ARIA 1.2)</li><li><u>aria-dropeffect</u></li></ul>

Characteristic	Value
	<ul style="list-style-type: none"> <li>• <a href="#">aria-errormessage</a> (Global use deprecated in ARIA 1.2)</li> <li>• <a href="#">aria-flowto</a></li> <li>• <a href="#">aria-grabbed (state)</a></li> <li>• <a href="#">aria-haspopup</a> (Global use deprecated in ARIA 1.2)</li> <li>• <a href="#">aria-hidden (state)</a></li> <li>• <a href="#">aria-invalid (state)</a> (Global use deprecated in ARIA 1.2)</li> <li>• <a href="#">aria-keyshortcuts</a></li> <li>• <a href="#">aria-label</a></li> <li>• <a href="#">aria-labelledby</a></li> <li>• <a href="#">aria-live</a></li> <li>• <a href="#">aria-owns</a></li> <li>• <a href="#">aria-relevant</a></li> <li>• <a href="#">aria-roledescription</a></li> </ul>
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	False

## doc-preface (role)

An introductory section that precedes the work, typically written by the author of the work.

### EXAMPLE 36

```
<section role="doc-preface">
 <h2>Introduction: A Guide to the Galaxy</h2>
 ...
</section>
```

*Characteristics of doc-preface:*

<i>Characteristic</i>	<i>Value</i>
<i>Superclass Role:</i>	<u>landmark</u>
<i>Related Concepts:</i>	EPUB <a href="#">preface</a> [ <a href="#">EPUB-SSV-11</a> ]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"><li>• <a href="#">aria-atomic</a></li><li>• <a href="#">aria-braillelabel</a></li><li>• <a href="#">aria-brailleroledescription</a></li><li>• <a href="#">aria-busy (state)</a></li><li>• <a href="#">aria-controls</a></li><li>• <a href="#">aria-current (state)</a></li><li>• <a href="#">aria-describedby</a></li><li>• <a href="#">aria-description</a></li><li>• <a href="#">aria-details</a></li><li>• <a href="#">aria-disabled (state)</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-dropeffect</a></li><li>• <a href="#">aria-errormessage</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-flowto</a></li><li>• <a href="#">aria-grabbed (state)</a></li><li>• <a href="#">aria-haspopup</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-hidden (state)</a></li><li>• <a href="#">aria-invalid (state)</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-keyshortcuts</a></li><li>• <a href="#">aria-label</a></li><li>• <a href="#">aria-labelledby</a></li></ul>

<i>Characteristic</i>	<i>Value</i>
	<ul style="list-style-type: none"> <li>• <a href="#"><u>aria-live</u></a></li> <li>• <a href="#"><u>aria-owns</u></a></li> <li>• <a href="#"><u>aria-relevant</u></a></li> <li>• <a href="#"><u>aria-roledescription</u></a></li> </ul>
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	False

## doc-prologue (role)

An introductory section that sets the background to a work, typically part of the narrative.

### EXAMPLE 37

```
<section role="doc-prologue">
 <header>
 <h2>Prologue</h2>
 <p>Chorus</p>
 </header>
 <p>Two households, both alike in dignity, ...</p>
 ...
</section>
```

*Characteristics of doc-prologue:*

<i>Characteristic</i>	<i>Value</i>
<i>Superclass Role:</i>	<a href="#"><u>landmark</u></a>
<i>Related Concepts:</i>	EPUB <a href="#"><u>prologue</u></a> [ <a href="#"><u>EPUB-SSV-11</u></a> ]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"> <li>• <a href="#"><u>aria-atomic</u></a></li> <li>• <a href="#"><u>aria-braillelabel</u></a></li> </ul>

Characteristic	Value
	<ul style="list-style-type: none"><li>• <a href="#"><u>aria-brailleroledescription</u></a></li><li>• <a href="#"><u>aria-busy (state)</u></a></li><li>• <a href="#"><u>aria-controls</u></a></li><li>• <a href="#"><u>aria-current (state)</u></a></li><li>• <a href="#"><u>aria-describedby</u></a></li><li>• <a href="#"><u>aria-description</u></a></li><li>• <a href="#"><u>aria-details</u></a></li><li>• <a href="#"><u>aria-disabled (state)</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-dropeffect</u></a></li><li>• <a href="#"><u>aria-errormessage</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-flowto</u></a></li><li>• <a href="#"><u>aria-grabbed (state)</u></a></li><li>• <a href="#"><u>aria-haspopup</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-hidden (state)</u></a></li><li>• <a href="#"><u>aria-invalid (state)</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-keyshortcuts</u></a></li><li>• <a href="#"><u>aria-label</u></a></li><li>• <a href="#"><u>aria-labelledby</u></a></li><li>• <a href="#"><u>aria-live</u></a></li><li>• <a href="#"><u>aria-owns</u></a></li><li>• <a href="#"><u>aria-relevant</u></a></li><li>• <a href="#"><u>aria-roledescription</u></a></li></ul>

Name From:

author

Characteristic	Value
<i>Accessible Name Required:</i>	False

## doc-pullquote (role)

A distinctively placed or highlighted quotation from the current content designed to draw attention to a topic or highlight a key point.

Unlike a passage quoted from another source, a pullquote is a direct repetition of text in the current document. As a result, authors *MUST* ensure that the presentational occurrence is hidden from users of assistive technologies (e.g., using the [aria-hidden](#) attribute).

The following example shows the identification of a pullquote that will be presented elsewhere (e.g., via a script). In this case, the pullquote is not hidden as the marked text is not presentational.

### EXAMPLE 38

```
<p>... I may die, but first you, my tyrant and tormentor, shall curse the :
Beware, for I am fearless and the I will watch with the wiliness of a snake, that I may sting with its v
```

The next example shows a pullquote that duplicates the text. This quote is hidden because it is for presentational purposes only.

### EXAMPLE 39

```
<p>... Better habits pave the way to growth, and growth leads to greater ha
<aside role="doc-pullquote" aria-hidden="true">Better habits pave the way to growth, and growth leads to greater happ</aside>
```

*Characteristics of doc-pullquote:*

Characteristic	Value
<i>Superclass Role:</i>	<a href="#">section</a>

<i>Characteristic</i>	<i>Value</i>
<i>Related Concepts:</i>	EPUB <a href="#">pullquote</a> [ <a href="#">EPUB-SSV-11</a> ]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"><li>• <a href="#">aria-atomic</a></li><li>• <a href="#">aria-braillabel</a></li><li>• <a href="#">aria-brailleroledescription</a></li><li>• <a href="#">aria-busy (state)</a></li><li>• <a href="#">aria-controls</a></li><li>• <a href="#">aria-current (state)</a></li><li>• <a href="#">aria-describedby</a></li><li>• <a href="#">aria-description</a></li><li>• <a href="#">aria-details</a></li><li>• <a href="#">aria-disabled (state)</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-dropeffect</a></li><li>• <a href="#">aria-errormessage</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-flowto</a></li><li>• <a href="#">aria-grabbed (state)</a></li><li>• <a href="#">aria-haspopup</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-hidden (state)</a></li><li>• <a href="#">aria-invalid (state)</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-keyshortcuts</a></li><li>• <a href="#">aria-label</a></li><li>• <a href="#">aria-labelledby</a></li><li>• <a href="#">aria-live</a></li><li>• <a href="#">aria-owns</a></li></ul>

Characteristic	Value
	<ul style="list-style-type: none"> <li>• <u>aria-relevant</u></li> <li>• <u>aria-roledescription</u></li> </ul>
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	False

## doc-qna (role)

A section of content structured as a series of questions and answers, such as an interview or list of frequently asked questions.

### EXAMPLE 40

```
<section role="doc-qna">
 <h2>Interview with the Author</h2>
 <dl>
 <dt>Q: When did you begin writing this book?</dt>
 <dd>A: I first got the idea ...</dd>
 ...
 </dl>
</section>
```

*Characteristics of doc-qna:*

Characteristic	Value
<i>Superclass Role:</i>	<u>section</u>
<i>Related Concepts:</i>	EPUB <u>qna</u> [ <u>EPUB-SSV-11</u> ]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"> <li>• <u>aria-atomic</u></li> <li>• <u>aria-braillelabel</u></li> <li>• <u>aria-brailleroledescription</u></li> </ul>

Characteristic	Value
	<ul style="list-style-type: none"><li>• <a href="#">aria-busy (state)</a></li><li>• <a href="#">aria-controls</a></li><li>• <a href="#">aria-current (state)</a></li><li>• <a href="#">aria-describedby</a></li><li>• <a href="#">aria-description</a></li><li>• <a href="#">aria-details</a></li><li>• <a href="#">aria-disabled (state)</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-dropeffect</a></li><li>• <a href="#">aria-errormessage</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-flowto</a></li><li>• <a href="#">aria-grabbed (state)</a></li><li>• <a href="#">aria-haspopup</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-hidden (state)</a></li><li>• <a href="#">aria-invalid (state)</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-keyshortcuts</a></li><li>• <a href="#">aria-label</a></li><li>• <a href="#">aria-labelledby</a></li><li>• <a href="#">aria-live</a></li><li>• <a href="#">aria-owns</a></li><li>• <a href="#">aria-relevant</a></li><li>• <a href="#">aria-roledescription</a></li></ul>
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	False

## doc-subtitle (role)

An explanatory or alternate title for the work, or a section or component within it.

### EXAMPLE 41

```
<header>
 <h2>Chapter 2 The Battle</h2>
 <p role="doc-subtitle">Once more unto the breach</p>
</header>
```

*Characteristics of doc-subtitle:*

Characteristic	Value
<i>Superclass Role:</i>	<u><a href="#">sectionhead</a></u>
<i>Related Concepts:</i>	EPUB <u><a href="#">subtitle</a></u> [ <u><a href="#">EPUB-SSV-II</a></u> ]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"><li>• <u><a href="#">aria-atomic</a></u></li><li>• <u><a href="#">aria-braillelabel</a></u></li><li>• <u><a href="#">aria-brailleroledescription</a></u></li><li>• <u><a href="#">aria-busy (state)</a></u></li><li>• <u><a href="#">aria-controls</a></u></li><li>• <u><a href="#">aria-current (state)</a></u></li><li>• <u><a href="#">aria-describedby</a></u></li><li>• <u><a href="#">aria-description</a></u></li><li>• <u><a href="#">aria-details</a></u></li><li>• <u><a href="#">aria-disabled (state)</a></u> (Global use deprecated in ARIA 1.2)</li><li>• <u><a href="#">aria-dropeffect</a></u></li><li>• <u><a href="#">aria-errormessage</a></u> (Global use deprecated in ARIA 1.2)</li><li>• <u><a href="#">aria-flowto</a></u></li></ul>

Characteristic	Value
	<ul style="list-style-type: none"><li>• <a href="#">aria-grabbed (state)</a></li><li>• <a href="#">aria-haspopup</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-hidden (state)</a></li><li>• <a href="#">aria-invalid (state)</a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#">aria-keyshortcuts</a></li><li>• <a href="#">aria-label</a></li><li>• <a href="#">aria-labelledby</a></li><li>• <a href="#">aria-live</a></li><li>• <a href="#">aria-owns</a></li><li>• <a href="#">aria-relevant</a></li><li>• <a href="#">aria-roledescription</a></li></ul>
<i>Name From:</i>	<ul style="list-style-type: none"><li>• contents</li><li>• author</li></ul>
<i>Accessible Name Required:</i>	False

## doc-tip (role)

Helpful information that clarifies some aspect of the content or assists in its comprehension.

### EXAMPLE 42

```
<aside role="doc-tip">
 <h3>Tip</h3>
 <p>You can assign a variable a new value that is the result
 of an expression involving its previous value.</p>
</aside>
```

*Characteristics of doc-tip:*

<i>Characteristic</i>	<i>Value</i>
<i>Superclass Role:</i>	<a href="#"><u>note</u></a>
<i>Related Concepts:</i>	EPUB <a href="#"><u>help</u></a> [ <a href="#"><u>EPUB-SSV-11</u></a> ]
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"><li>• <a href="#"><u>aria-atomic</u></a></li><li>• <a href="#"><u>aria-braillelabel</u></a></li><li>• <a href="#"><u>aria-brailleroledescription</u></a></li><li>• <a href="#"><u>aria-busy (state)</u></a></li><li>• <a href="#"><u>aria-controls</u></a></li><li>• <a href="#"><u>aria-current (state)</u></a></li><li>• <a href="#"><u>aria-describedby</u></a></li><li>• <a href="#"><u>aria-description</u></a></li><li>• <a href="#"><u>aria-details</u></a></li><li>• <a href="#"><u>aria-disabled (state)</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-dropeffect</u></a></li><li>• <a href="#"><u>aria-errormessage</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-flowto</u></a></li><li>• <a href="#"><u>aria-grabbed (state)</u></a></li><li>• <a href="#"><u>aria-haspopup</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-hidden (state)</u></a></li><li>• <a href="#"><u>aria-invalid (state)</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-keyshortcuts</u></a></li><li>• <a href="#"><u>aria-label</u></a></li><li>• <a href="#"><u>aria-labelledby</u></a></li></ul>

Characteristic	Value
	<ul style="list-style-type: none"> <li>• <a href="#">aria-live</a></li> <li>• <a href="#">aria-owns</a></li> <li>• <a href="#">aria-relevant</a></li> <li>• <a href="#">aria-roledescription</a></li> </ul>
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	False

## doc-toc (role)

A navigational aid that provides an ordered list of links to the major sectional headings in the content. A table of contents could cover an entire work or only a smaller section of it.

### EXAMPLE 43

```

<nav role="doc-toc">
 <h2>Contents</h2>
 <ol role="directory">
 Original Transcriber's Notes:<,
 ETYMOLOGY.
 EXTRACTS (Supplied by a Sub-Sub-L:
 Chapter 1. Loomings.
 ...

</nav>

```

*Characteristics of doc-toc:*

Characteristic	Value
<i>Superclass Role:</i>	<a href="#">navigation</a>
<i>Related Concepts:</i>	EPUB <a href="#">toc</a> [ <a href="#">EPUB-SSV-11</a> ]

<i>Characteristic</i>	<i>Value</i>
<i>Inherited States and Properties:</i>	<ul style="list-style-type: none"><li>• <a href="#"><u>aria-atomic</u></a></li><li>• <a href="#"><u>aria-braillelabel</u></a></li><li>• <a href="#"><u>aria-brailleroledescription</u></a></li><li>• <a href="#"><u>aria-busy (state)</u></a></li><li>• <a href="#"><u>aria-controls</u></a></li><li>• <a href="#"><u>aria-current (state)</u></a></li><li>• <a href="#"><u>aria-describedby</u></a></li><li>• <a href="#"><u>aria-description</u></a></li><li>• <a href="#"><u>aria-details</u></a></li><li>• <a href="#"><u>aria-disabled (state)</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-dropeffect</u></a></li><li>• <a href="#"><u>aria-errormessage</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-flowto</u></a></li><li>• <a href="#"><u>aria-grabbed (state)</u></a></li><li>• <a href="#"><u>aria-haspopup</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-hidden (state)</u></a></li><li>• <a href="#"><u>aria-invalid (state)</u></a> (Global use deprecated in ARIA 1.2)</li><li>• <a href="#"><u>aria-keyshortcuts</u></a></li><li>• <a href="#"><u>aria-label</u></a></li><li>• <a href="#"><u>aria-labelledby</u></a></li><li>• <a href="#"><u>aria-live</u></a></li><li>• <a href="#"><u>aria-owns</u></a></li><li>• <a href="#"><u>aria-relevant</u></a></li></ul>

Characteristic	Value
	<ul style="list-style-type: none"><li>• <a href="#"><u>aria-roledescription</u></a></li></ul>
<i>Name From:</i>	author
<i>Accessible Name Required:</i>	False

## § 4. Security Considerations

*This section is non-normative.*

This specification introduces no new security considerations.

## § 5. Privacy Considerations

*This section is non-normative.*

In accordance with [Web Platform Design Principles](#), this specification provides no programmatic interface to determine if information is being used by assistive technologies. However, this specification does allow an author to present different information to users of assistive technologies from the information available to users who do not use assistive technologies. This is possible using many features of the DPUB-ARIA specification, just as this is possible using many other parts of the web technology stack. This content disparity could be abused to perform [active fingerprinting](#) of users of assistive technologies.

## § A. Change Log

*This section is non-normative.*

## § A.1 Substantive changes since the last Candidate Recommendation Snapshot

- 04-March-2025: Add back the superclass role for doc-biblioentry

## § A.2 Substantive changes since the DPUB-ARIA 1.0 Recommendation

- 01-Dec-2023: Removed the requirements to imply list items descendants of doc-bibliography and doc-endnotes are doc-biblioentry and doc-endnote
- 20-Sep-2021: Clarified ambiguities in the formatting and processing of endnote and bibliography lists and require that the doc-footnote role not be used within endnotes. See [issue 38](#).
- 24-Feb-2021: Changed required accessible name for doc-part to false to match the other landmark roles. See [issue 34](#).
- 02-Oct-2020: Added new doc-pageheader and doc-pagefooter roles. See [issue 28](#).
- 31-July-2020: Clarified that the name of doc-pagebreak is the page number of the page that is beginning. See [issue 27](#).
- 31-July-2020: Removed term and definition as required children of doc-glossary to accommodate various ways glossaries can be constructed. See [issue 9](#).
- 25-July-2020: Recommend that doc-pagebreak name be end user-consumable. See [issue 17](#).
- 24-July-2020: Changed the superclass of doc-example to figure to make compatible with use on HTML figure. See [issue 19](#).
- 23-July-2020: Deprecated the doc-biblioentry and doc-endnote roles due to the inability of them to be recognized as children of list. See [issue 15](#).
- 23-July-2020: Updated doc-pagebreak to allow name from contents. See [issue 12](#).
- 15-Mar-2018: Fixed superclass of doc-pullquote to section to match the mapping in the [\[dpub-aam-1.0\]](#). See [issue 7](#).
- 15-Mar-2018: Updated doc-subtitle to allow name from contents. See [issue 6](#).

## § B. Acknowledgments

*This section is non-normative.*

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## § C. References

### § C.1 Normative references

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**[RFC8174]**

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**[WAI-ARIA]**

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