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CSS

Cascading Style Sheets

CSS1, CSS2.1, CSS3

CSS Paged Media module

CSS1, CSS2.1, CSS3

CSS3

Taxonomy & Status (September 2017)

- W3C Recommendation
- Candidate Recommendation
- Last Call
- Working Draft
- Obsolete or inactive

Screenshot of one of the slides from Julie Blanc, as part of her presentation during the Paged.js workshop in October 2022.

http://slides.julie-blanc.fr/20221013_xpub-rotterdam.html#/

CSS Paged Media module

Paged media have many special requirements for the display of document content, which have

evolved over the long history of printed books. Running headers and footers function as aids to navigation. Notes may appear at the bottom of the page as footnotes. Properties on pages themselves may change based on their content or position in the document. Leaders visually connect related content. Cross-references may require generated text. Some paged media formats such as PDF use bookmarks for navigation.

Modern browsers (no support yet)

A few of the Paged Media CSS properties are supported by modern (aka up-to-date) browsers, but not many unfortunately, as the W3C CSS Paged Media module is still in a "working draft" mode. You can check if a CSS property is supported by a specific browser at <https://caniuse.com/>

It's good to say that you can still get pretty far with the properties that are supported atm. It really depends on what you want to make in the end.

Paged.js and Weasyprint (already support)

If you nevertheless do want to use these properties, you can use **Paged.js**, a Javascript library also known as a polyfill, that aims to fill the gaps between the working draft document and modern browsers. The project comes with extended documentation: <https://pagedjs.org/documentation/>

Or you can use **Weasyprint**, who also supports most of the CSS Paged Media properties

<https://www.w3.org/TR/css-page-3/> (published version)

<https://drafts.csswg.org/css-page/#blank-pseudo> (current draft)

Not [yet] supported atm

Modern browsers (no support yet)

paged media.

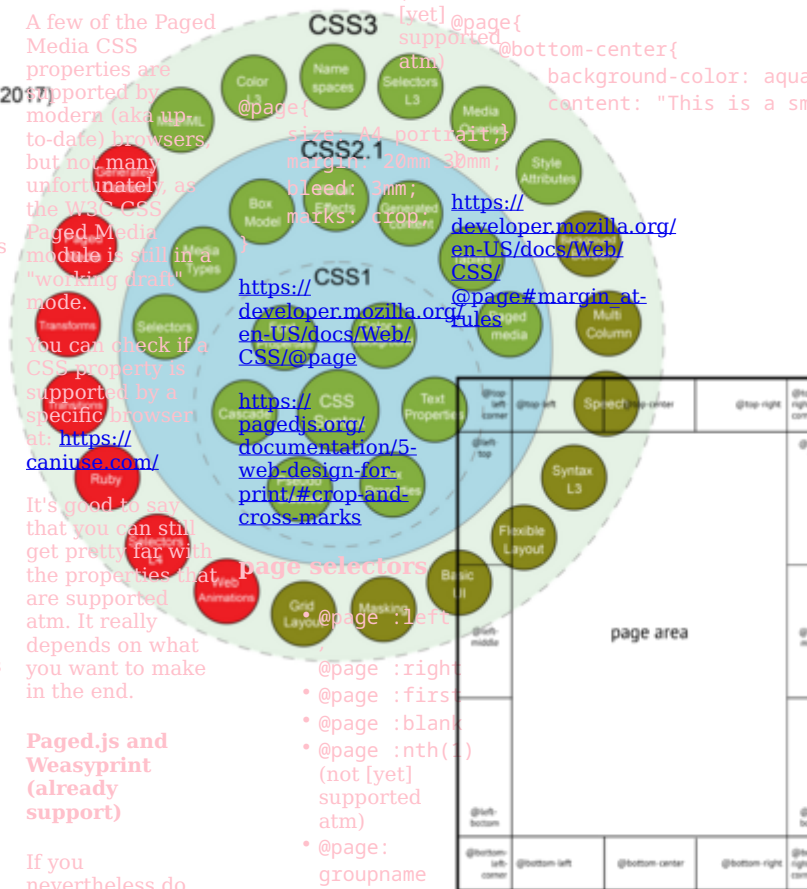
described on this page. In the Weasyprint documentation [here](#) you can read which properties are supported and which ones not.

page rules

- @page
 - size
 - margin
 - bleed (not [yet] supported atm)
 - marks (not [yet] supported atm)
 - @page{ size: A4 portrait; margin: 20mm 30mm; bleed: 3mm; marks: crop; }

@page margin at-rules

- @top-left{} (not [yet] supported atm)
- @left-bottom{} (not [yet] supported atm)
- @bottom-center{} (not [yet] supported atm)
- etc.



page selectors

- @page .left
- @page :right
- @page :first
- @page :blank
- @page :nth(n) (not [yet] supported atm)
- @page: groupname + @page
- @page: groupname (not [yet] supported atm)

@page margin at-rules boxes, [image from Paged.js](#).

page breaks

```
@page :first{
  background-color: MediumPurple;
}
@page :left{
  background-color: pink;
}
@page :right{
  h1 {
    background-color: yellow;
  }
}
@page:break-after: always;
```

<https://devdocs.io/css/break-before-en-US/docs/Web/CSS/@page>

<https://devdocs.io/css/break-after>

running headers and footers

- `content()`, `string()` - named strings (not [yet] supported atm)
- `running()`, `element()` - running elements (not [yet] supported atm)

```
@page{
  @top-center{
    background-color: #cccccc;
    content: string(myTitle);
    .link::after {
      content: " (which is: "
    }
  }
  h1{
    string-set: myTitle content(text);
  }
}
```

<https://pagedjs.org/documentation/7-generated-content-in-margin-boxes/#named-string%3A-classical-running-headers%2Ffooters>

page counters

- `counter()` (not [yet] supported atm)

```
@page{
  @bottom-center{
    content: counter(page);
  }
}
```

<https://www.w3.org/TR/css-page-3/#page-based-counters>

cross-referencing

- `target-counter()` (not [yet] supported atm)
- `target-text()` (not [yet] supported atm)

<https://www.w3.org/TR/css-gcpm-3/#target-counter> + [https://pagedjs.org/documentation/-cross-references/#target-counter\(\)](https://pagedjs.org/documentation/-cross-references/#target-counter())

<https://www.w3.org/TR/css-gcpm-3/#target-text> + [https://pagedjs.org/documentation/-cross-references/#target-text\(\)](https://pagedjs.org/documentation/-cross-references/#target-text())

CSS Print tools

Layout engines for CSS Print

- your browser (based on **CSS Paged Media**): use **CTRL+P/ CMD+P**
- **Weasyprint** <https://doc.courtbouillon.org/weasyprint/stable/>
- **Paged.js** <https://www.pagedjs.org/>
- **wkhtmltopdf** <https://wkhtmltopdf.org/>
- **Vivliostyle** <https://vivliostyle.org/>
- **OSPKit** (CSS Regions legacy support!) <http://osp.kitchen/tools/ospkit/>

Custom workflows made with CSS Print

- **html2print** <http://osp.kitchen/tools/html2print/>
- **etherpash** <https://github.com/chchchchchch/var.lgm.etherpash>

- **8m-posters** (8 March poster generator made by Julien Bidoret) <https://prepostprint.org/8m-posters/>
- **PageTypeToPrint** <https://ateliers.esad-pyrenees.fr/pagetypeprint/>
- **Padatrad** <https://gitlab.com/editionsburnaout/padatrad>
- **octamode** <https://git.vvvvvaria.org/varia/octamode>
- **ether2html** <http://osp.kitchen/tools/ether2html/>
- **ethertoff** <http://osp.kitchen/tools/ethertoff/>

Books and publications made with CSS Print workflows

- **DiVersions** (MediaWiki, Paged.js)
- **Reclaiming Digital Infrastructures** (pads, Paged.js)

- **Machine Research** (pads?, PJ Machine)
- **Mondoteque** (MediaWiki, Weasyprint)
- **The Techno-Galactic Guide to Software Observation** (pads, mdsh?)
- **Volumetric Regimes** (MediaWiki, Paged.js)
- **Data Workers** (MediaWiki, asciWriter)

Examples, boilerplates, resources

- <https://constantvzw.org/wefts/webpublications.en.htm>
- <http://web.2print.org/>
- <https://books.constantvzw.org/>
- <https://gitlab.com/prepostprint/demos>
- <https://prepostprint.org/resources/>
- <https://ateliers.esad-pyrenees.fr/web/pages/exemples/#webtoprint>

Readings

- <https://phd.julie-blanc.fr/> (published in 2023)
- https://yantrividic.fr/assets/files/sujet_these.html (PhD in progress)

Online channels

- **W3C CSS Print Community Group** (launched in 2020, closed in December 2023)
- **PrePostPrint Matrix space**

See also

- **CSS Print examples** Free, Libre, and Open Source Software publishing practices
- **PDF**
- **HTML + CSS**
- **Typesetting Tools**
- <https://www.smashingmagazine.com/2015/01/designing-for-print-with-css/>