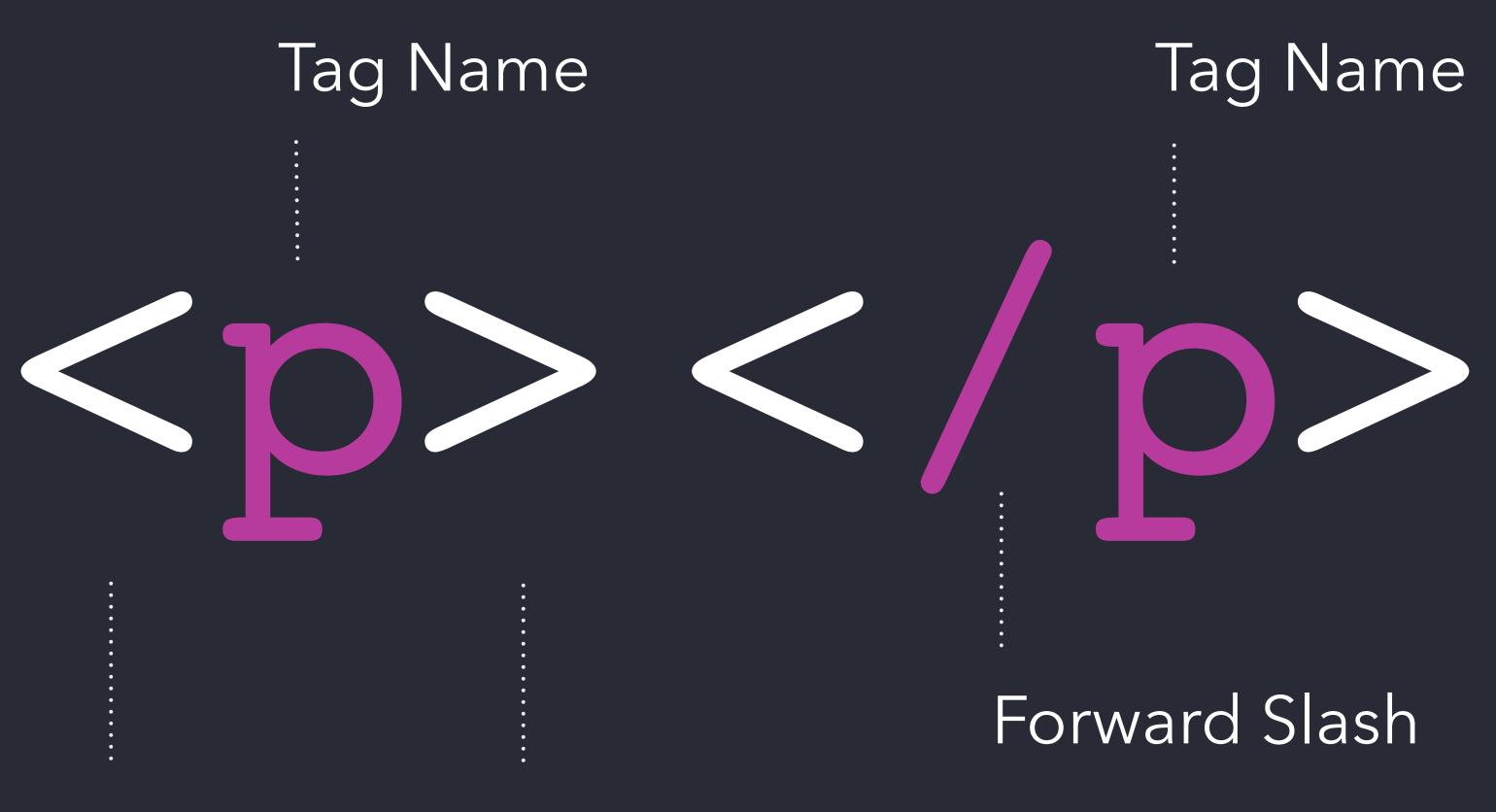
HTML & CSS REVIEW

HTML TAGS (ELEMENTS)



Left-Angle Bracket

Right-Angle Bracket

OPENING TAG

CLOSING TAG

CONTENT GOES BETWEEN TAGS

Lorem ipsum dolor.

ATTRIBUTES TELL US MORE ABOUT AN HTML ELEMENT

Attribute Name

Google

Attribute Value

HTML: PAGE STRUCTURE

</html>

```
<!DOCTYPE html>
                                                                  CODE
<html> -
- <head> -
  <title>Document Title</title>
<body> —
   <h1>This is the Main Heading</h1>
   This text might be an introduction to the rest of the page.
   <h2>This is a Sub-Heading</h2>
   Many long articles have sub-headings to help you follow the structure.
 </body>
```

LINKS

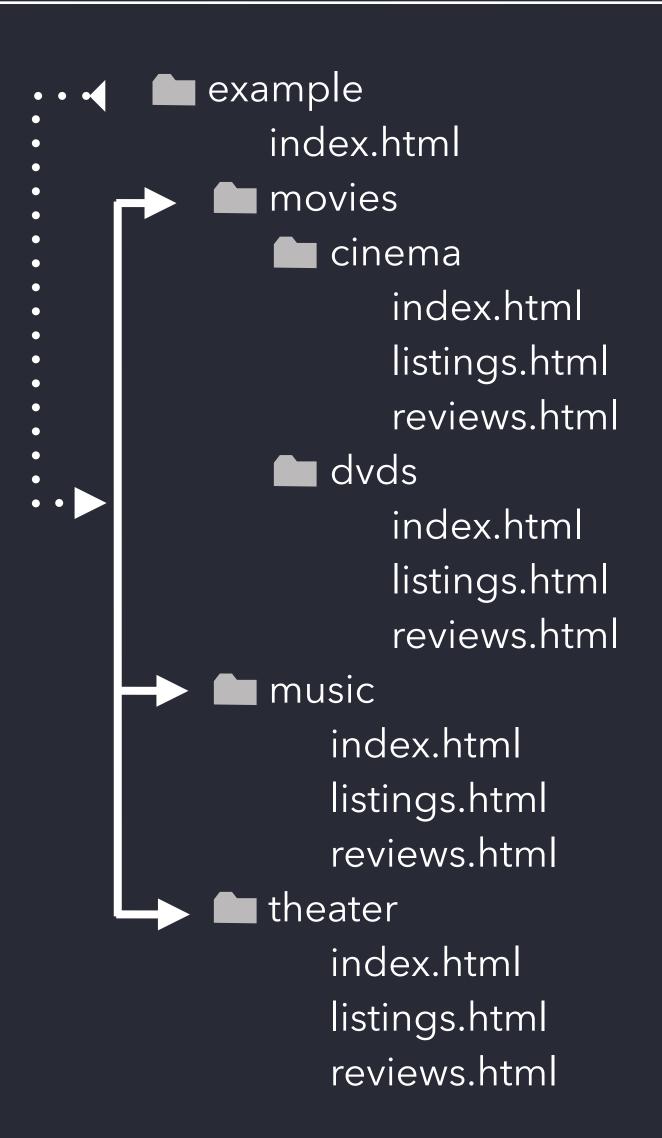
THE PAGE THE LINK TAKES YOU TO

IMDB

THE TEXT THE USER CLICKS ON

example Root Folder index.html movies **c**inema index.html listings.html reviews.html **dvds** index.html listings.html reviews.html music index.html listings.html reviews.html **theater** index.html listings.html reviews.html

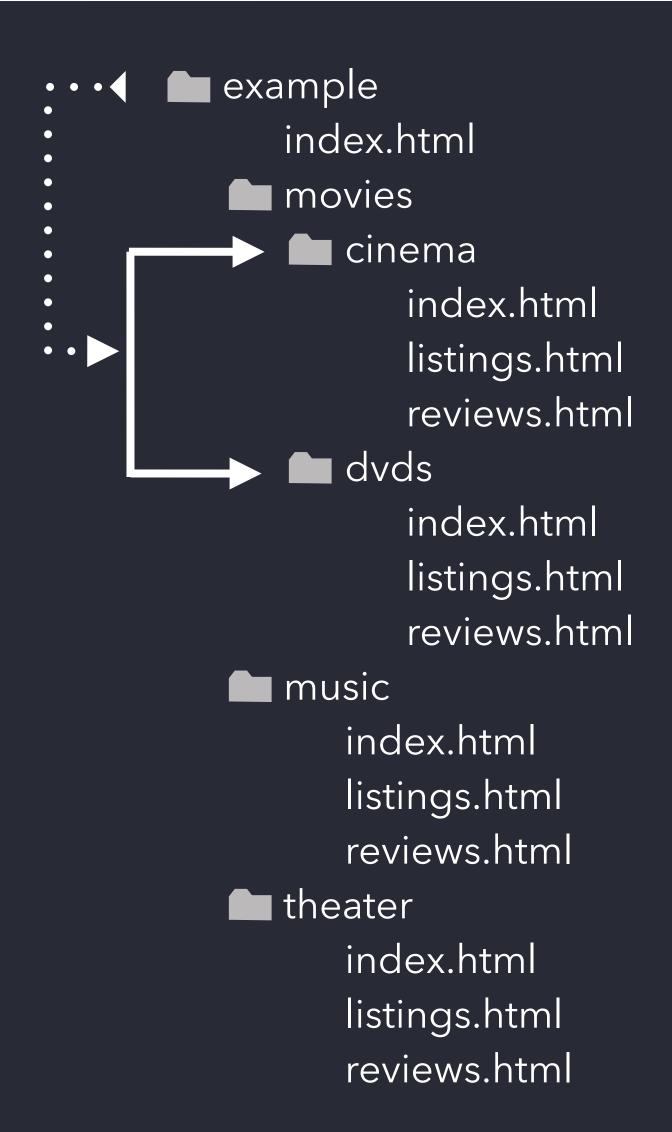
Child



Parent



Grandchild



Grandparent



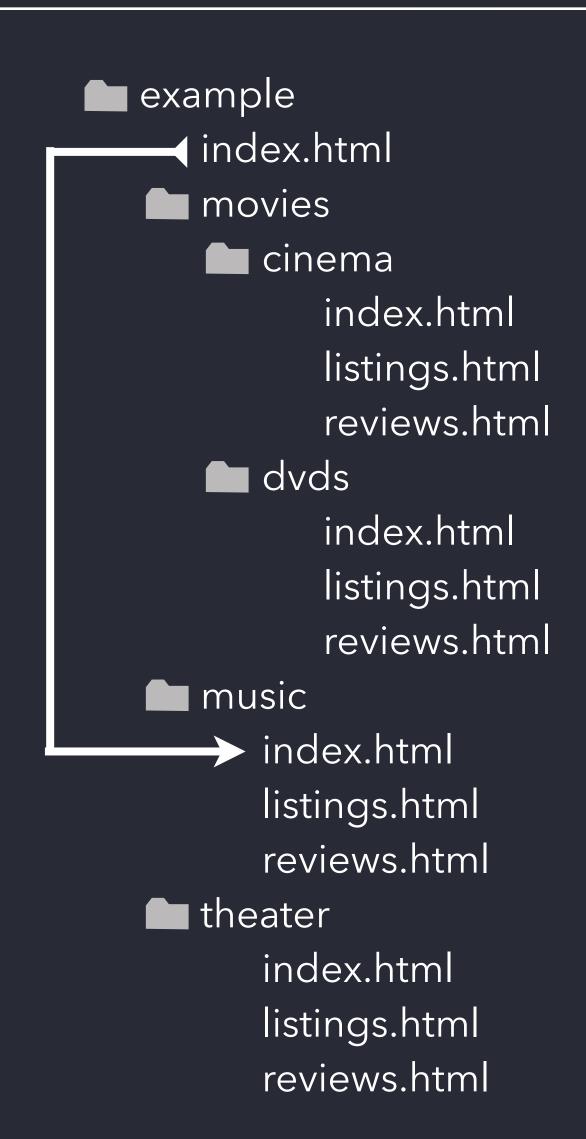
Same folder

reviews.html



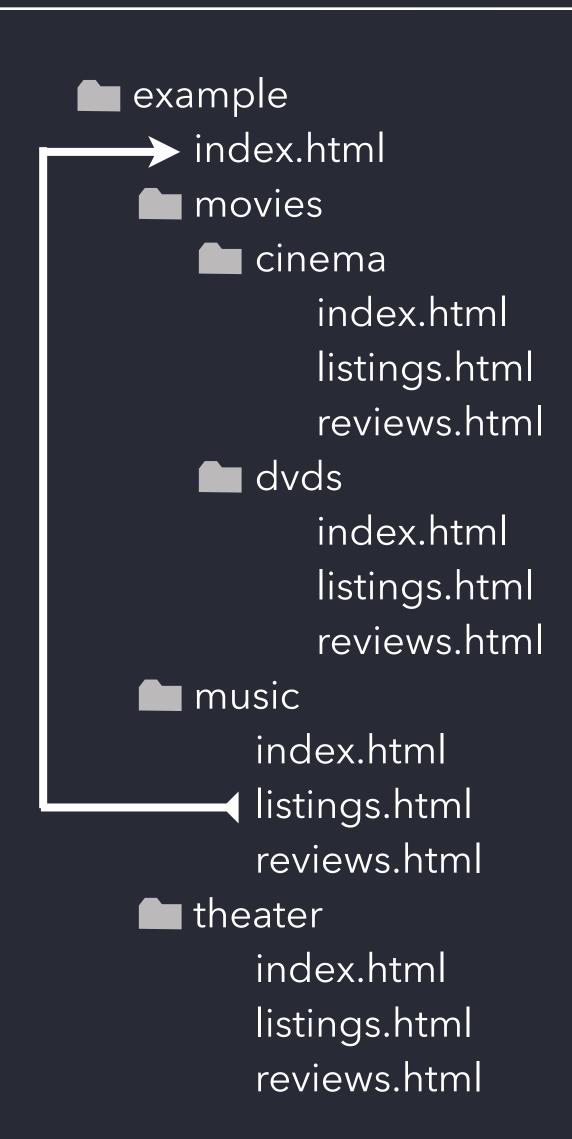
Child

music/index.html



Parent

../index.html



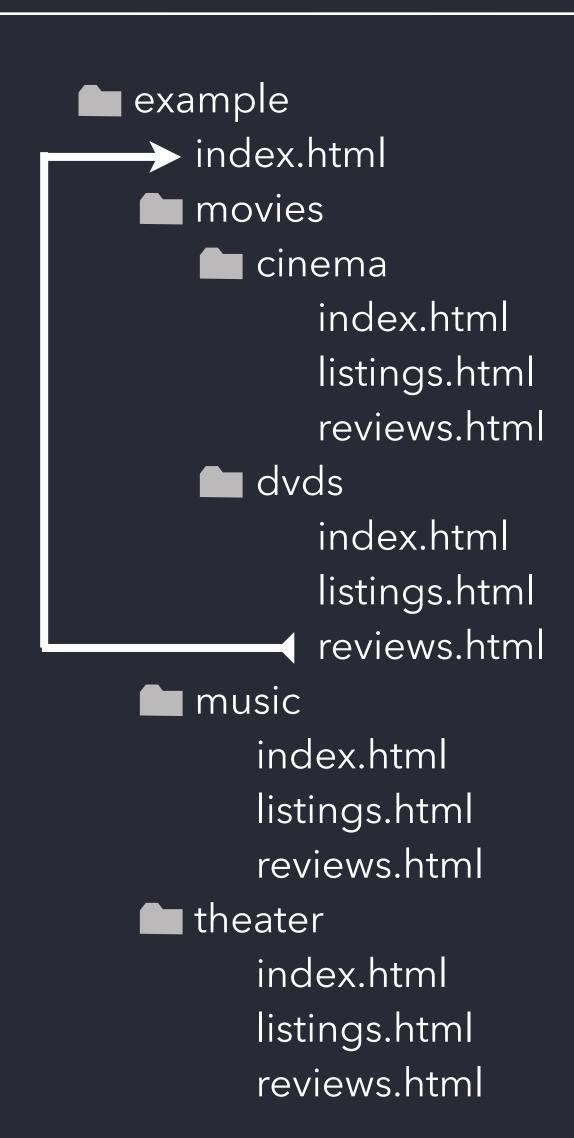
Grandchild

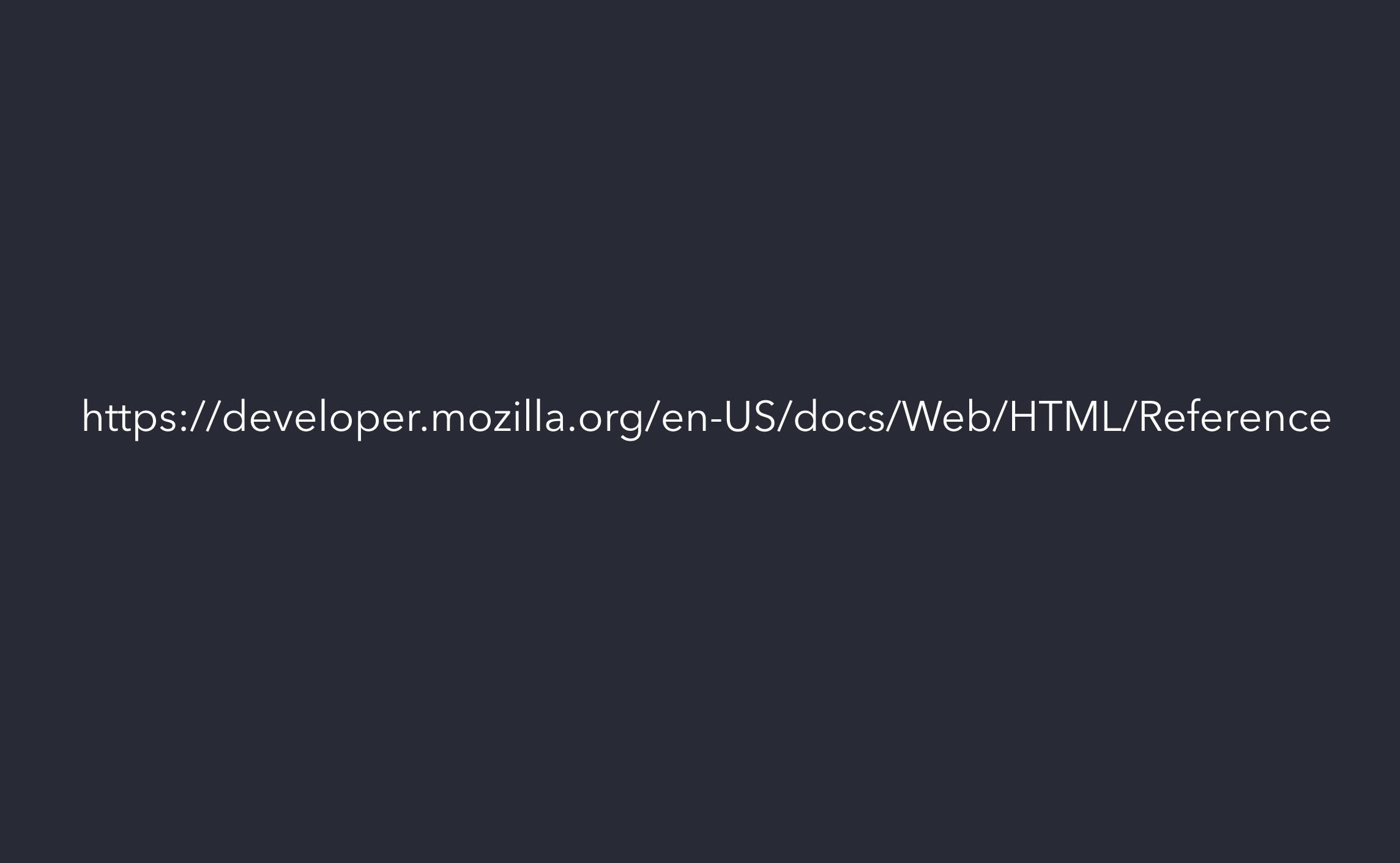
movies/dvds/index.html



Grandparent

../../index.html





CSS

CSS ASSOCIATES STYLE RULES WITH HTML ELEMENTS

Selector

Declaration

CSS PROPERTIES AFFECT HOW ELEMENTS ARE DISPLAYED

Property

Value

CSS PROPERTIES AFFECT HOW ELEMENTS ARE DISPLAYED

```
h1 {
  color: yellow;
  font-family: Arial;
  font-size: 18px;
                Values
    Properties
```

USING EXTERNAL CSS

```
<!DOCTYPE html>
<html>
 <head>
   <title>Using External CSS</title>
   <link href="css/styles.css" rel="stylesheet">
   </head>
 <body>
   <h1>Potatoes</h1>
   There are dozens of...
 </body>
</html>
```

USING EXTERNAL CSS

```
<!DOCTYPE html>
<html>
 <head>
   <title>Using External CSS</title>
   <link href="css/styles.css" rel="stylesheet">
 </head>
 <body>
   <h1>Potatoes</h1>
   There are dozens of...
 </body>
</html>
```

CSS SELECTORS

```
Universal
                 * {}
                 h1, h2, h3 {}
Type
Class
                 .note {}
                 p.note {}
Descendent
                 p a {}
                 #introduction {} /* NEVER use these */
ID
```

CASCADE & INHERITANCE

CASCADE

Selectors further down a style sheet override the same selectors higher in the style sheet

CASCADE

```
h1 {
  color: green;
}
h1 {
  color: red;
}
```

CASCADE

```
h1 {
  color: green;
}
h1 {
  color: red; /* All h1 will be red, overriding green set above */
}
```

Some properties inherit styles from parent elements

```
body {
  font-family: Arial;
  color: #333;
  padding: 10px;
h1 { ... }
.page { ... }
```

```
body {
  font-family: Arial; /* Inherited by children */
  color: #333; /* Inherited by children */
  padding: 10px;
h1 { ... }
.page { ... }
```

```
body {
  font-family: Arial;
  color: #333;
  padding: 10px;
h1 {
  color: #acd123; /* Override color set on parent (body) */
.page { ... }
```

```
body {
  font-family: Arial;
  color: #333;
 padding: 10px; /* Not inherited by children */
h1 {
 color: #acd123; /* Override color set on parent (body) */
.page
 padding: inherit; /* Force inheritance from parent (body) */
```

SPECIFICITY

SPECIFICITY

Selectors that are more specific will override selectors that are less specific

(regardless of placement in stylesheet)

CALCULATING SPECIFICITY

A weight is applied to a CSS selector

Weight is determined by the number of each selector types in the selector:

- 0. Type selectors (e.g. h1)
- 1. Class selectors (e.g. .example)
- 2. ID selectors (e.g. #example)

https://specificity.keegan.st

CALCULATING SPECIFICITY

```
h1 { ... }
body header h1 { ... }
.primary { ... }
h1.primary { ... }
= 11
.hero h1.primary { ... }
    2 classes
0 IDs
         1 element
#primary-header { ... }
1 ID 0 classes 0 elements
                   = 100
```

CSS BOX MODEL

BUILDING BLOCKS

BLOCK LEVEL

LOREM IPSUM

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam sodales pretium ipsum. Etiam ut enim augue. Etiam mi tortor, pulvinar at dictum faucibus, mollis eget nunc. Morbi justo velit, rutrum vel placerat in, adipiscing vitae sapien.

- Duis in erat neque.
- Pellentesque habitant morbi
- Praesent ac condimentum neque

INLINE

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam sodales **pretium ipsum**. Etiam ut enim augue. Etiam mi tortor, pulvinar at dictum faucibus, mollis eget nunc. Morbi justo velit, rutrum vel placerat in, adipiscing.

Suspendisse potenti. Duis in erat neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.

THINKING INSIDE THE BOX

The Cottage Garden

The *cottage garden* is a distinct style of garden that uses an informal design, dense planting and a mixture of ornamental and edible plants.

The Cottage Garden originated in England and its history can be traced back for centuries, although they were re-invented in 1870's England, when stylized versions were formed as a reaction to the more structured and rigorously maintained English estate gardens.

The earliest cottage gardens were more practical than their modern descendants, with an emphasis on vegetables and herbs, along with some fruit trees.



BORDER, MARGIN AND PADDING



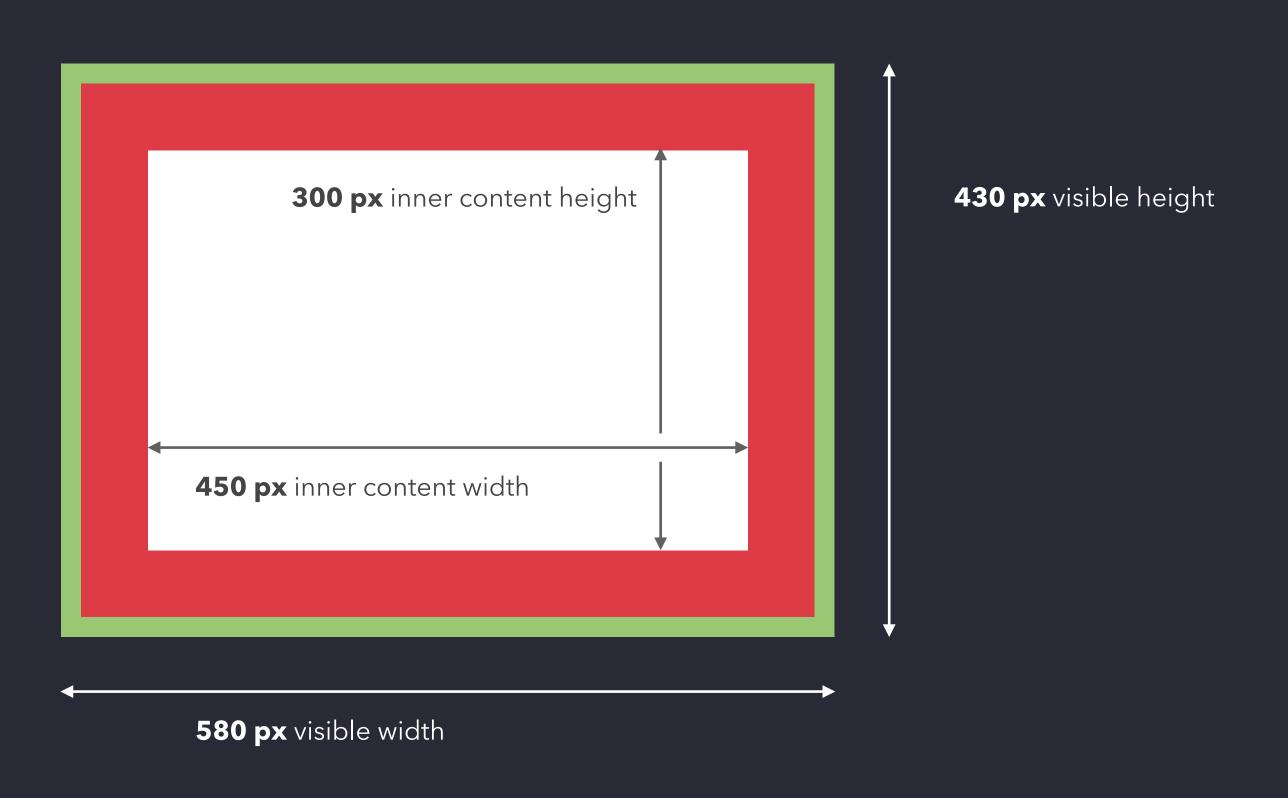
PADDING BORDER MARGIN

BOX SIZING

By default padding and border are added to the width of a box

width + padding + border = actual visual width of box

```
div {
  width: 450px;
  height: 300px;
  padding: 50px;
  border: 15px solid red;
}
```



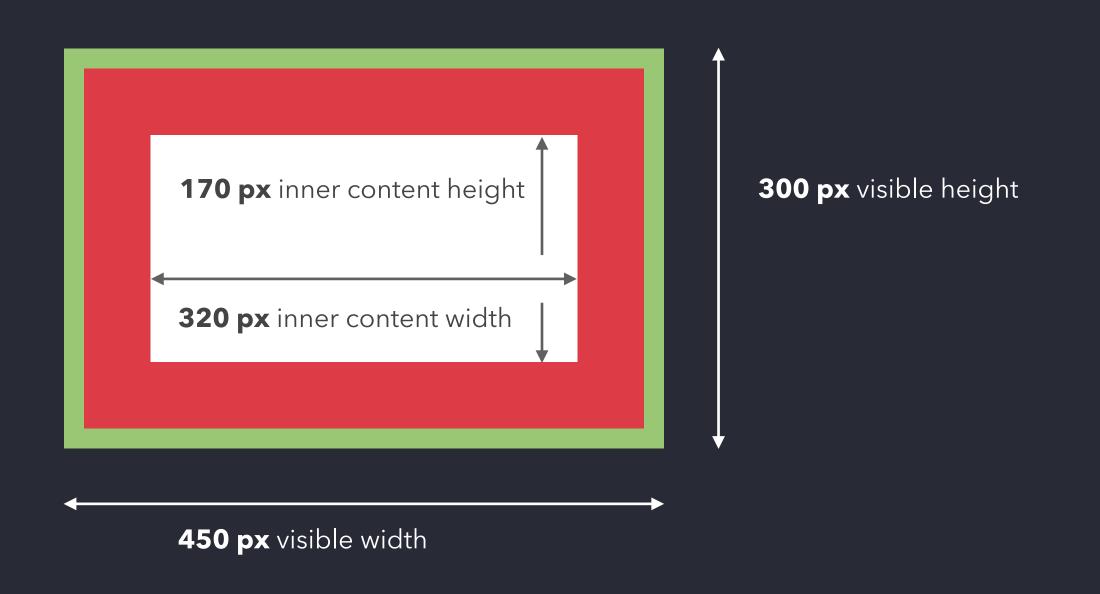
^{*} white box is where text content shows

BOX SIZING: BORDER-BOX

border-box: padding and border are included in the width of a box

Therefore reducing the inner dimensions of the box

```
div {
  width: 450px;
  height: 300px;
  padding: 50px;
  border: 15px solid red;
  box-sizing: border-box;
}
```



BOX SIZING

This becomes especially important when mixing percentage based widths with pixel based padding.

```
.div-1 {
 width: 100\%; /* Visual width is 100\% + 100px = >100% */
 padding: 50px;
.div-2 {
 width: 100%; /* Inner content width is 100% - 100px */
 padding: 50px;
 box-sizing: border-box;
```

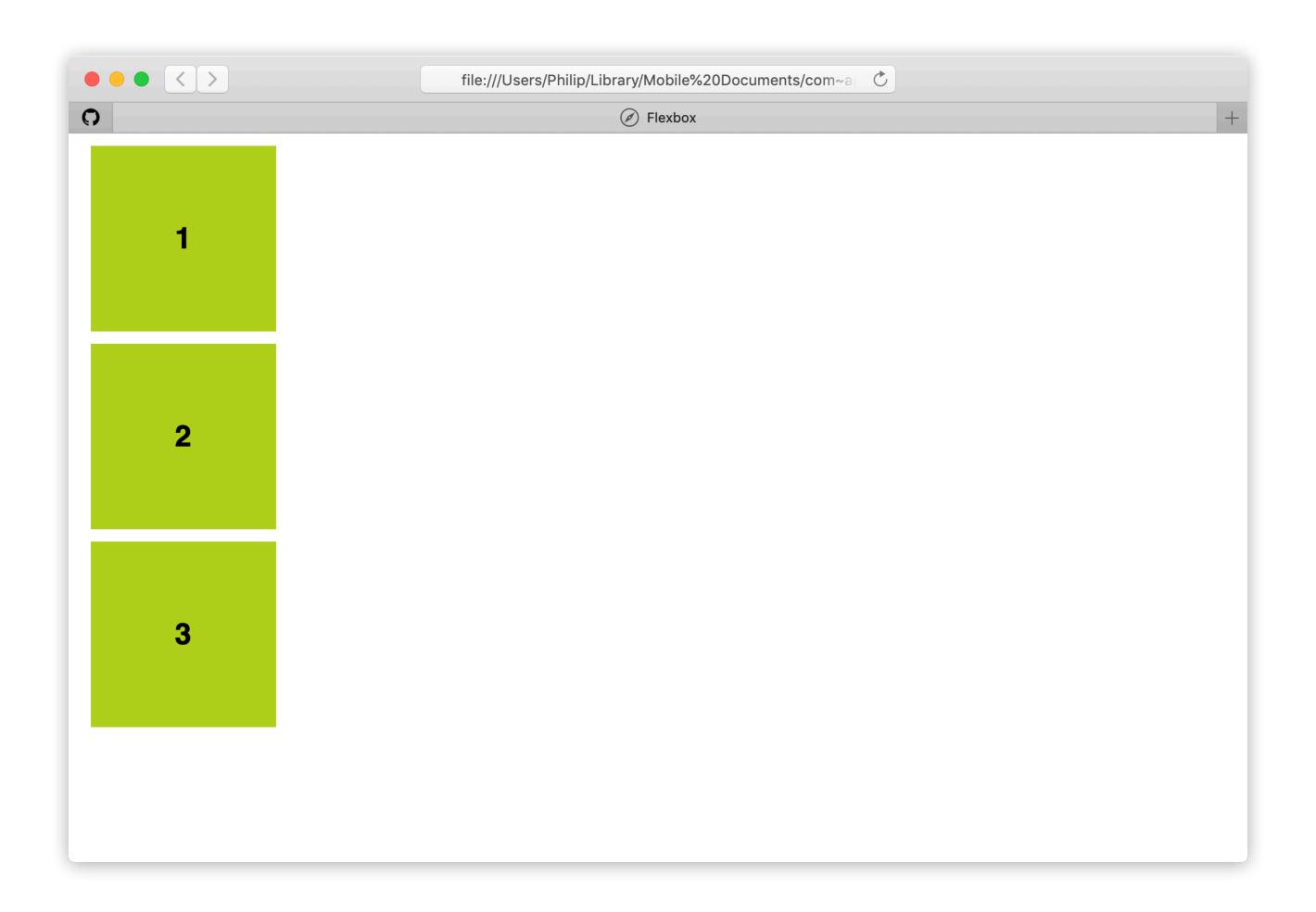
FLEXBOX

https://css-tricks.com/snippets/css/a-guide-to-flexbox/

HTML/CSS: SETUP

```
<div class="flex">
  <div class="box">1</div>
  <div class="box">2</div>
  <div class="box">3</div>
</div>
.box {
  width: 150px;
  height: 150px;
 margin: 10px;
  background-color: #acd123;
```

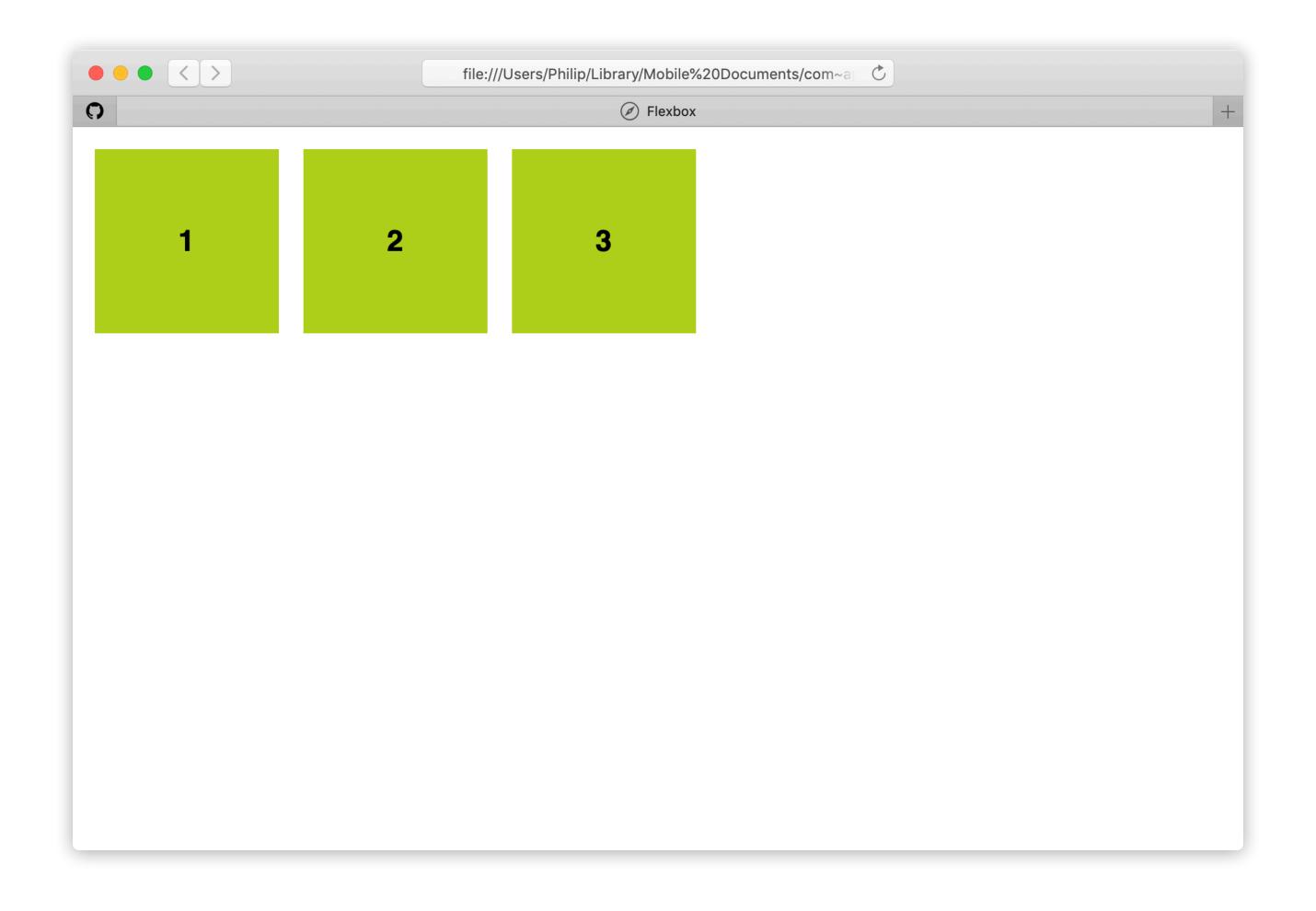
HTML/CSS: SETUP



FLEXBOX

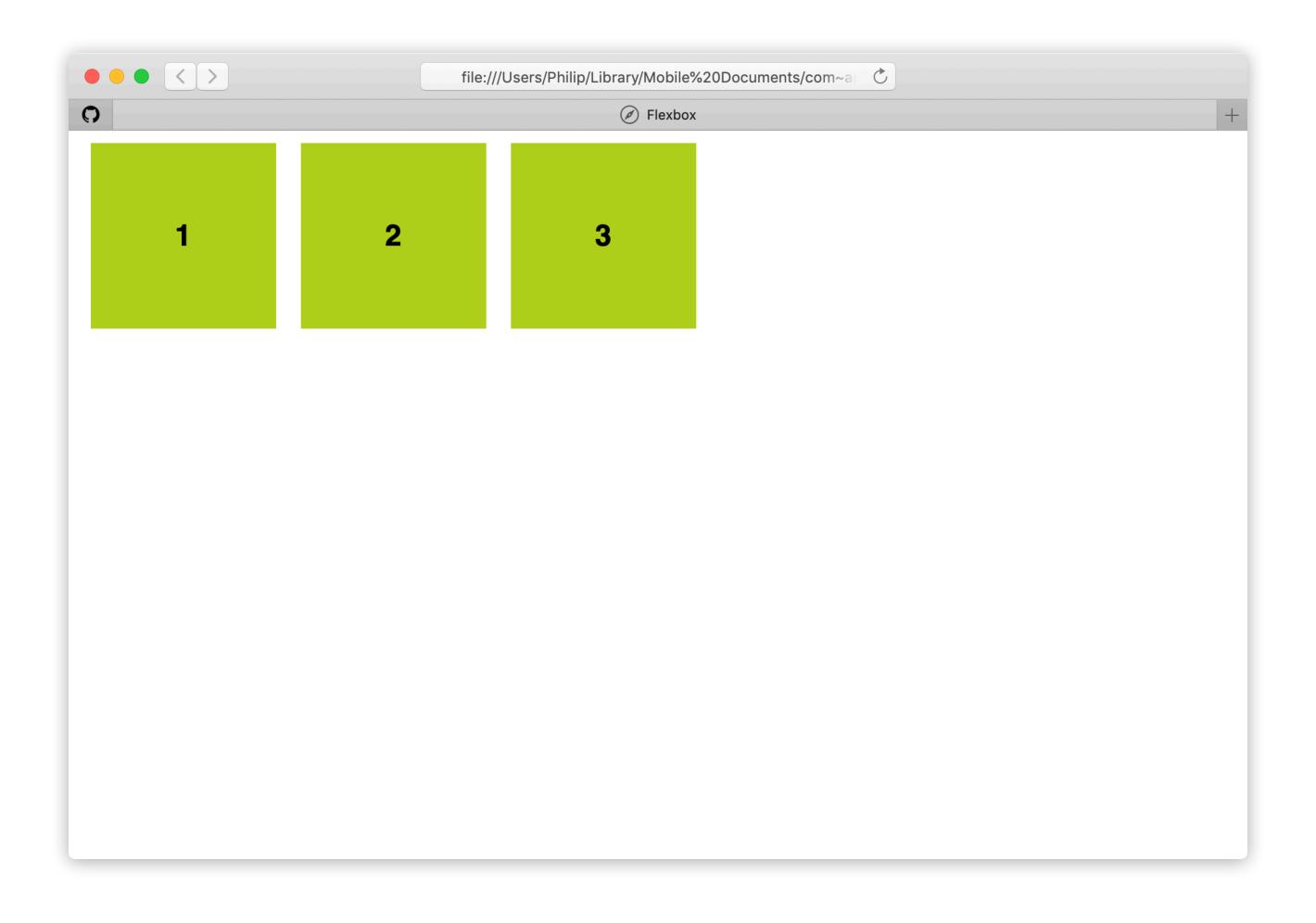
```
.flex {
   display: flex;
}
```

FLEXBOX

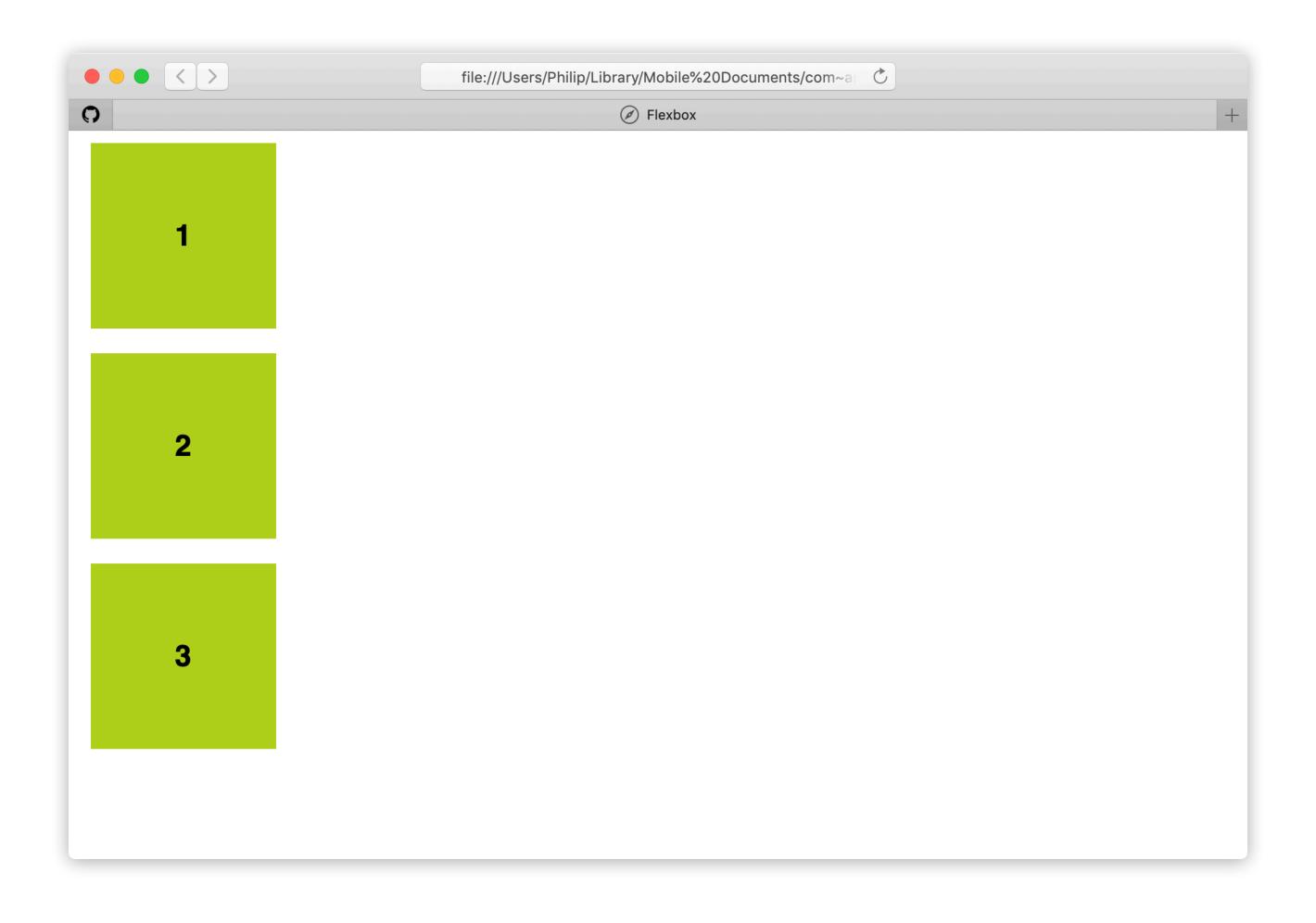


FLEX-DIRECTION

```
.flex {
    display: flex;
    flex-direction: row; /* Establishes main-axis along horizontal. Default is row */
}
```

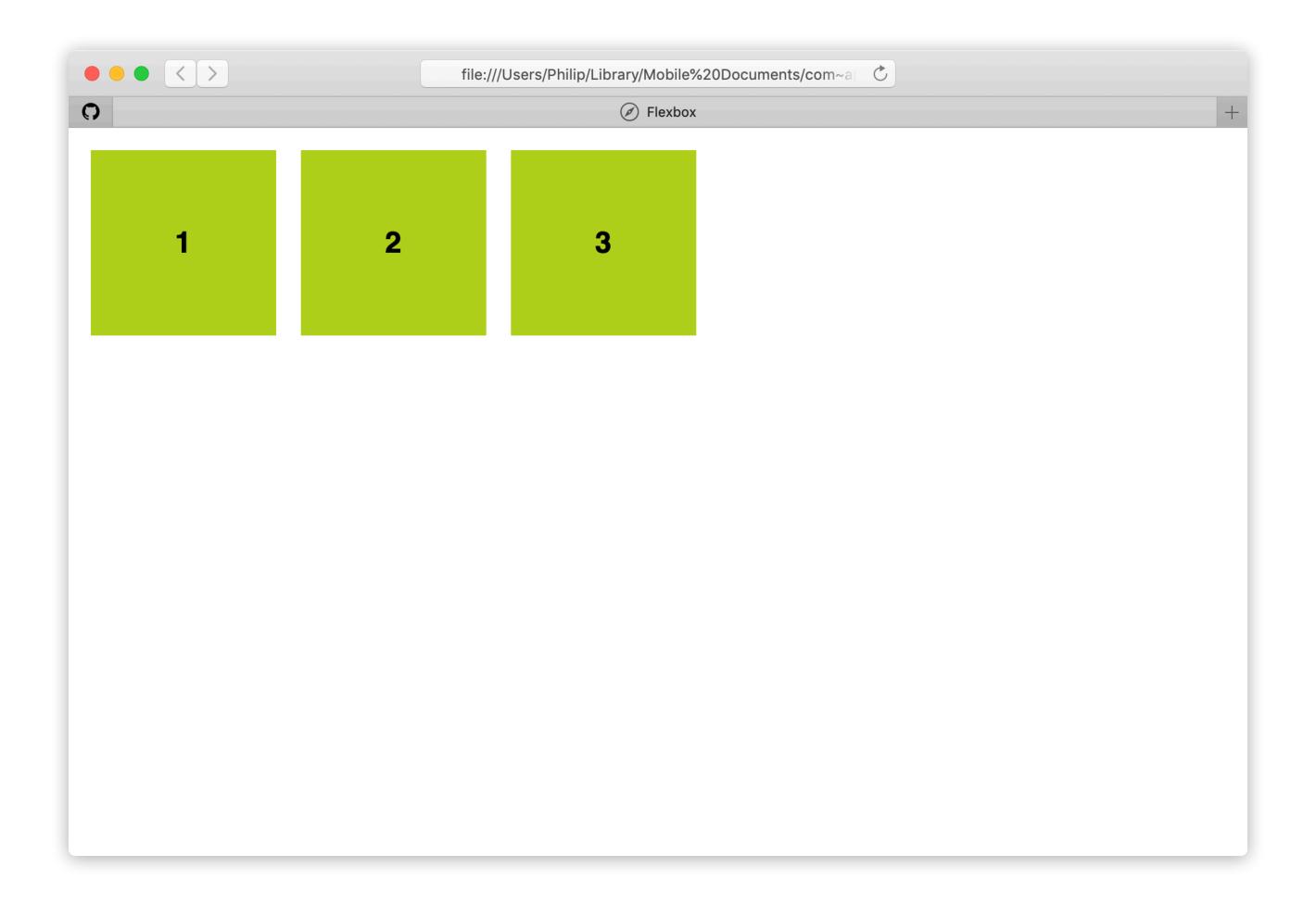


```
.flex {
 display: flex;
 flex-direction: column; /* Establishes main-axis along vertical. */
```

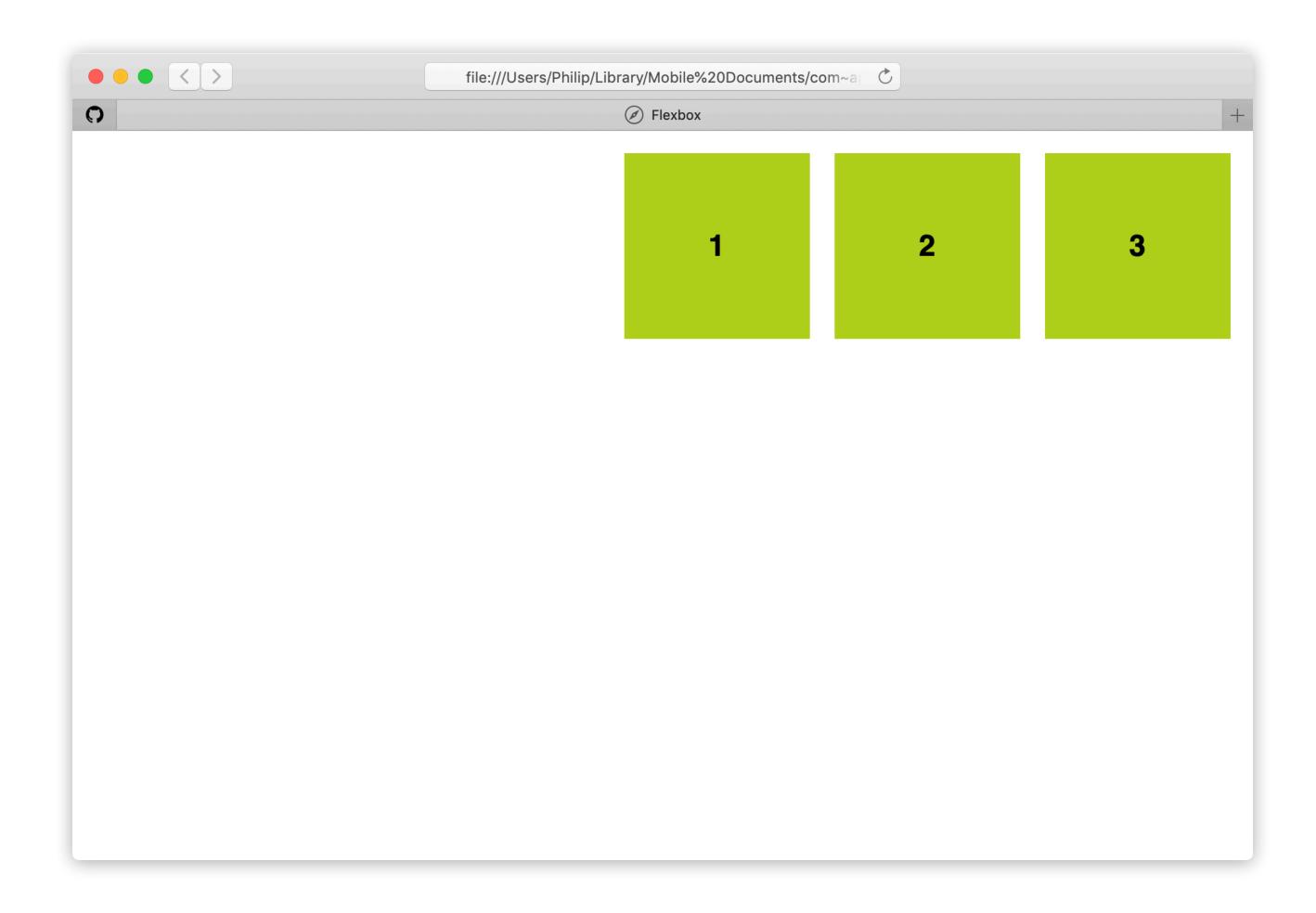


JUSTIFY-CONTENT

```
.flex {
   display: flex;
   justify-content: flex-start;
}
```



```
.flex {
   display: flex;
   justify-content: flex-end;
}
```



FLEX-START & FLEX-END

flex-start and flex-end are dependent on flex-direction e.g.:

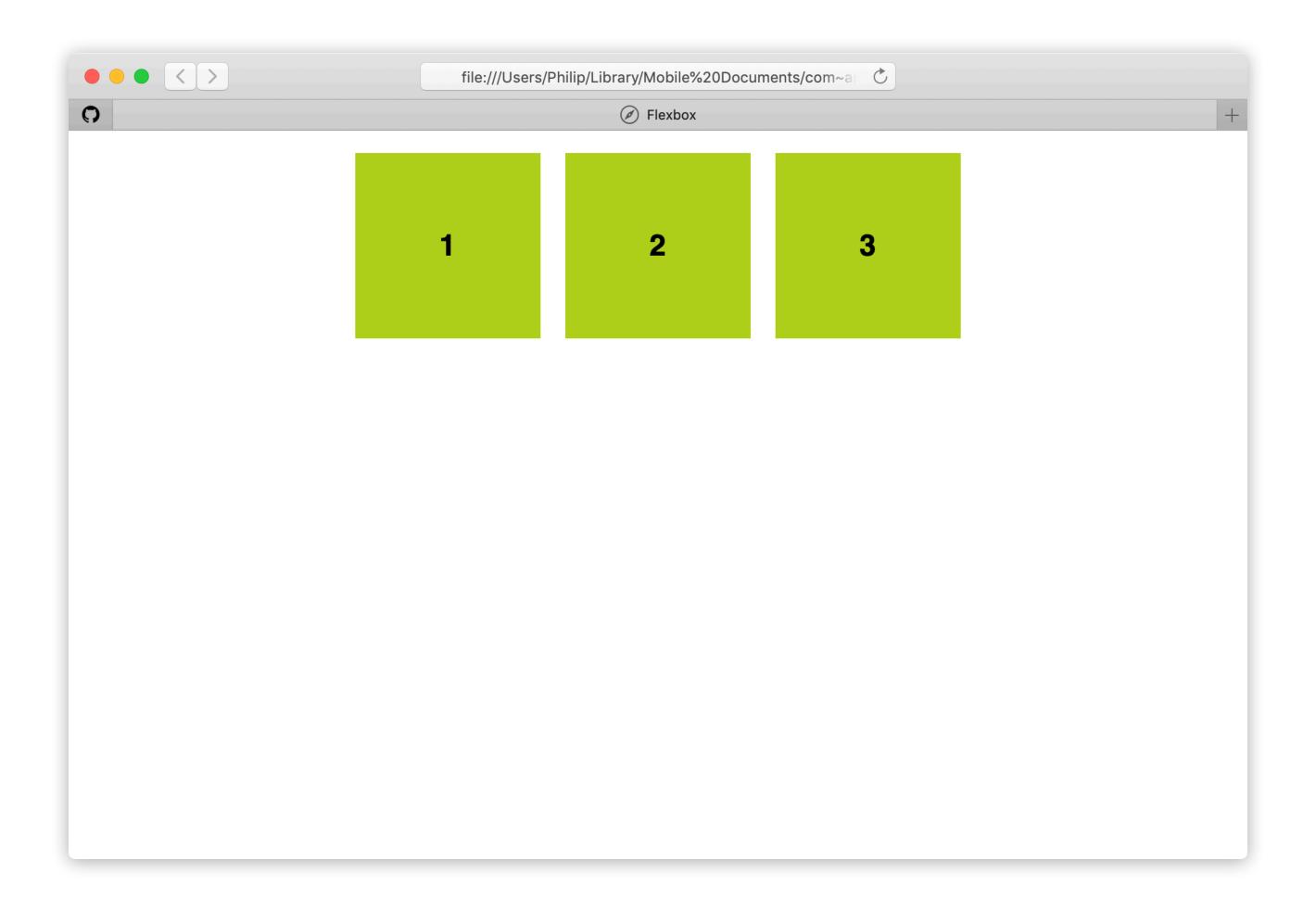
FLEX-START & FLEX-END

flex-start and flex-end are dependent on flex-direction e.g.:

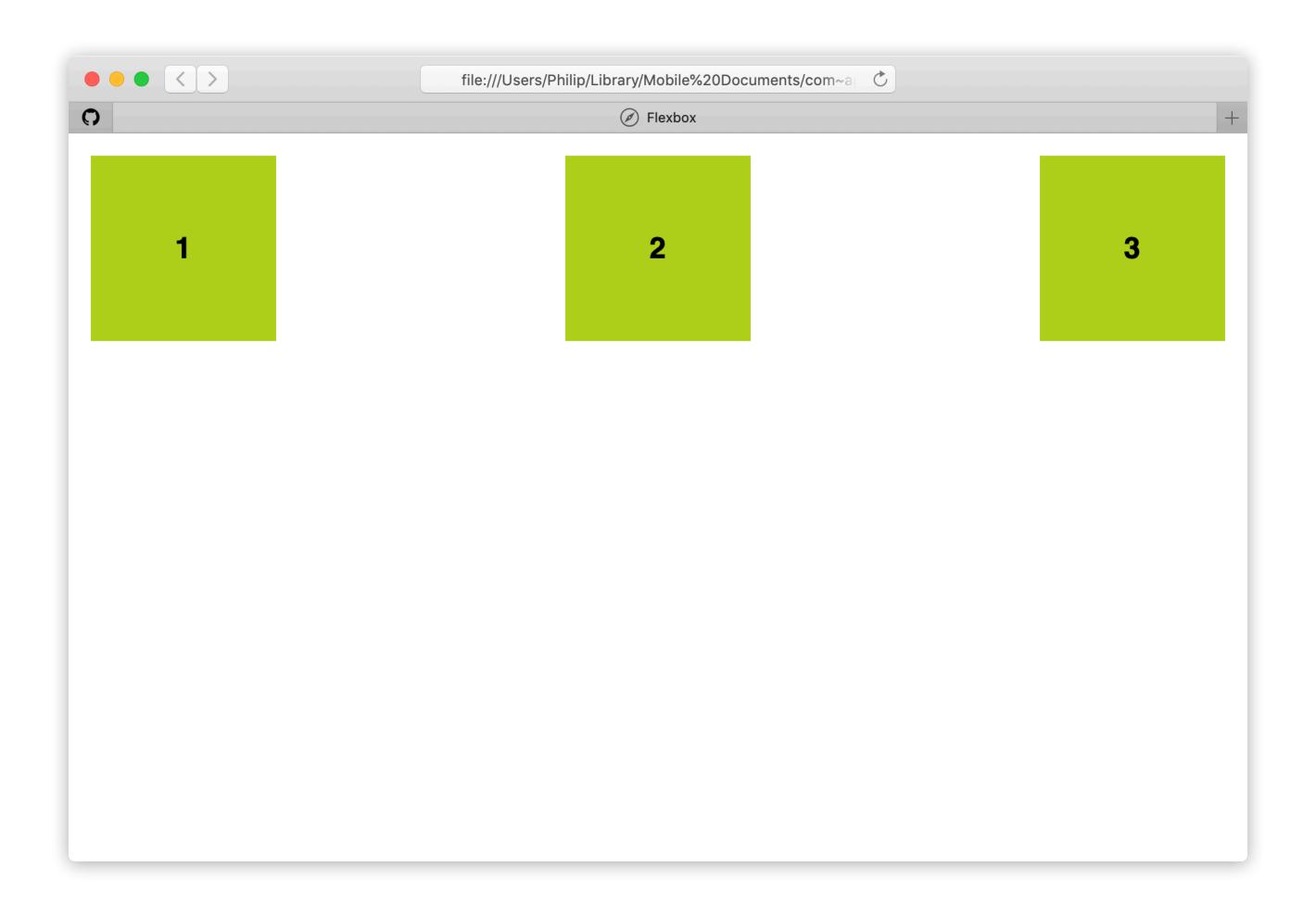
flex-start and flex-end are dependent on flex-direction e.g.:

```
.flex {
 display: flex;
 flex-direction: row; /* Flex items on horizontal axis */
 justify-content: flex-start; /* start is left. end is right. */
.flex {
 display: flex;
 flex-direction: column;
                               /* Flex items on vertical axis */
 justify-content: flex-start; /* start is top. end is bottom. */
```

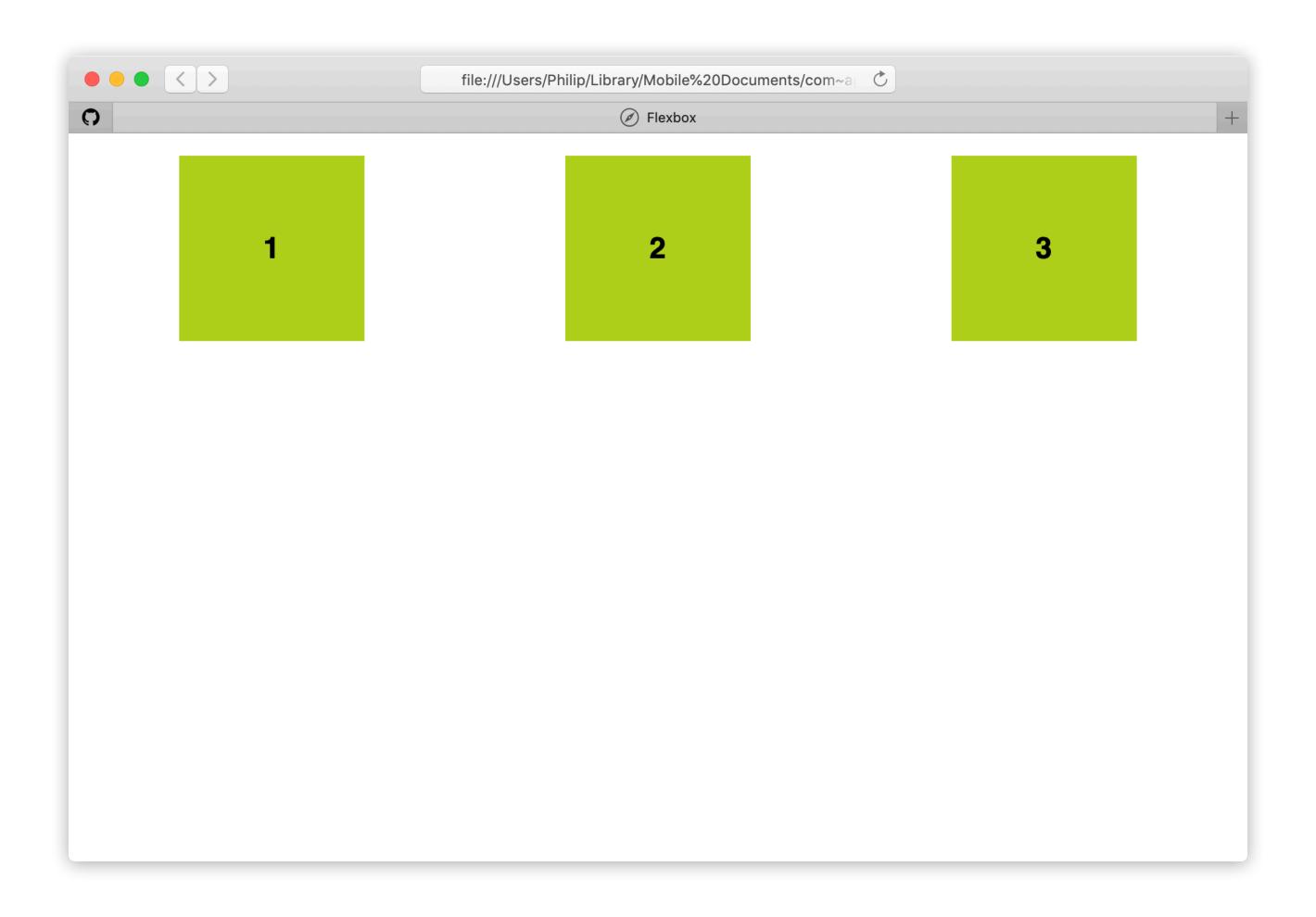
```
.flex {
   display: flex;
   justify-content: center;
}
```



```
.flex {
   display: flex;
   justify-content: space-between;
}
```

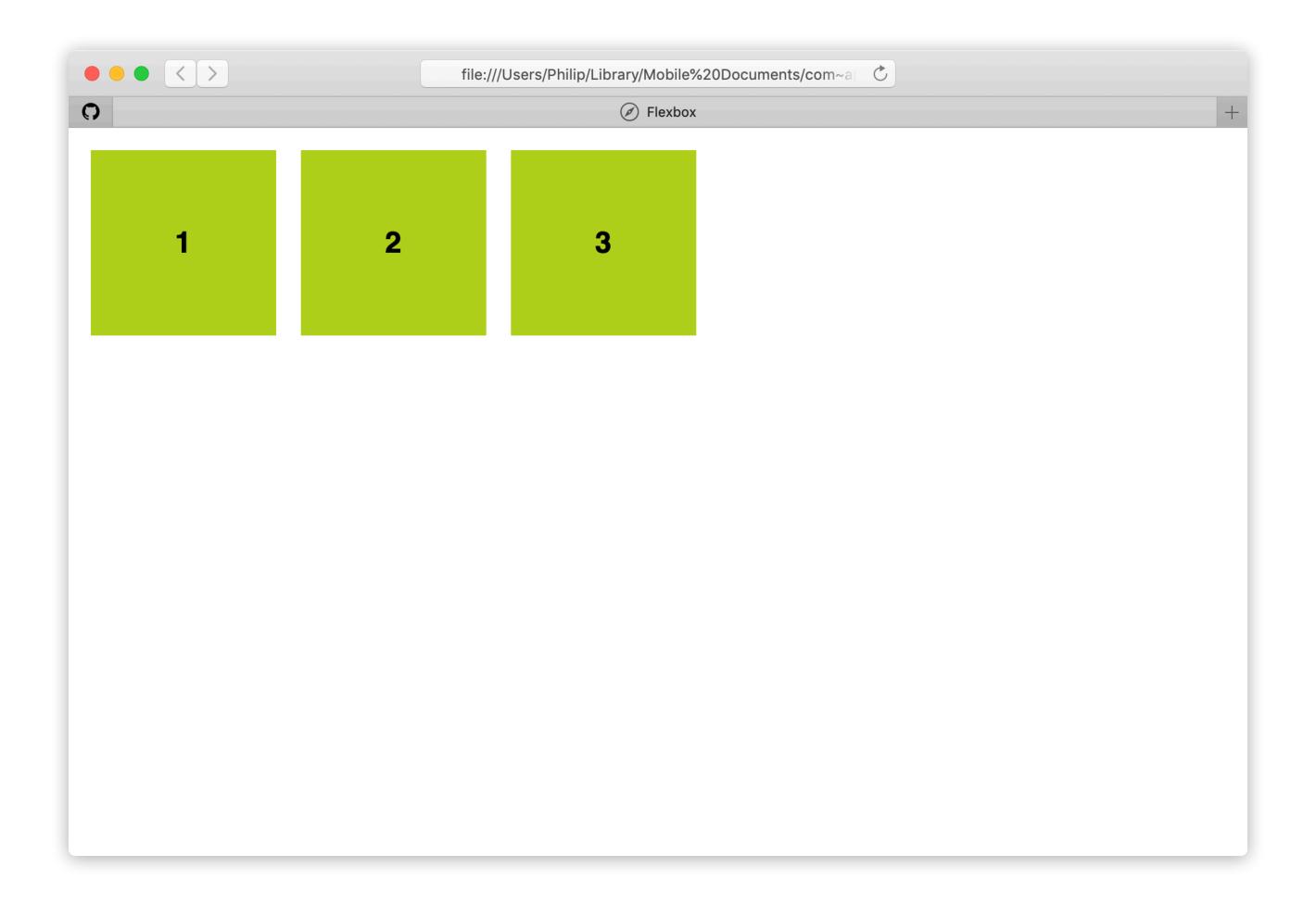


```
.flex {
    display: flex;
    justify-content: space-around;
}
```

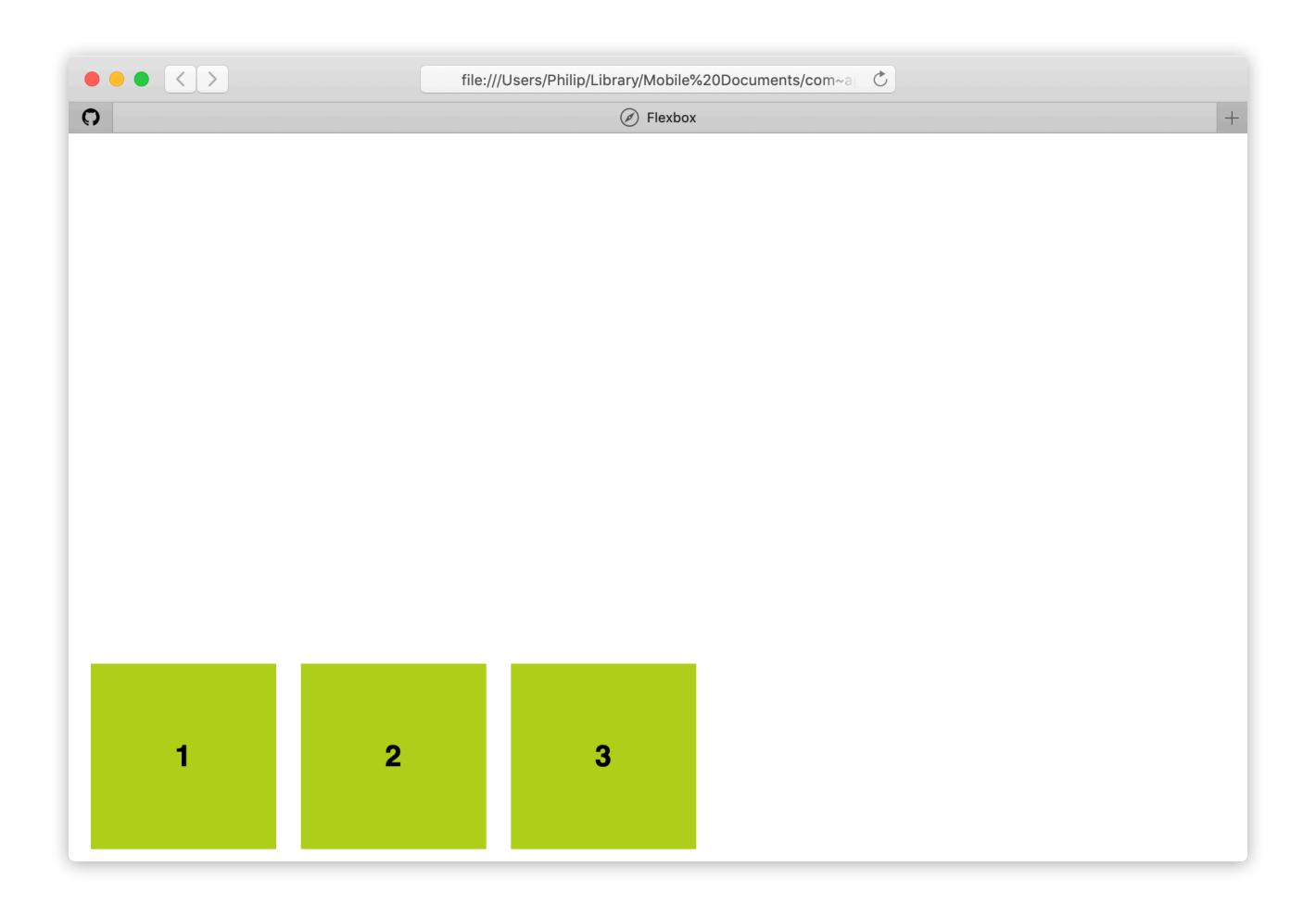


ALIGN-ITEMS

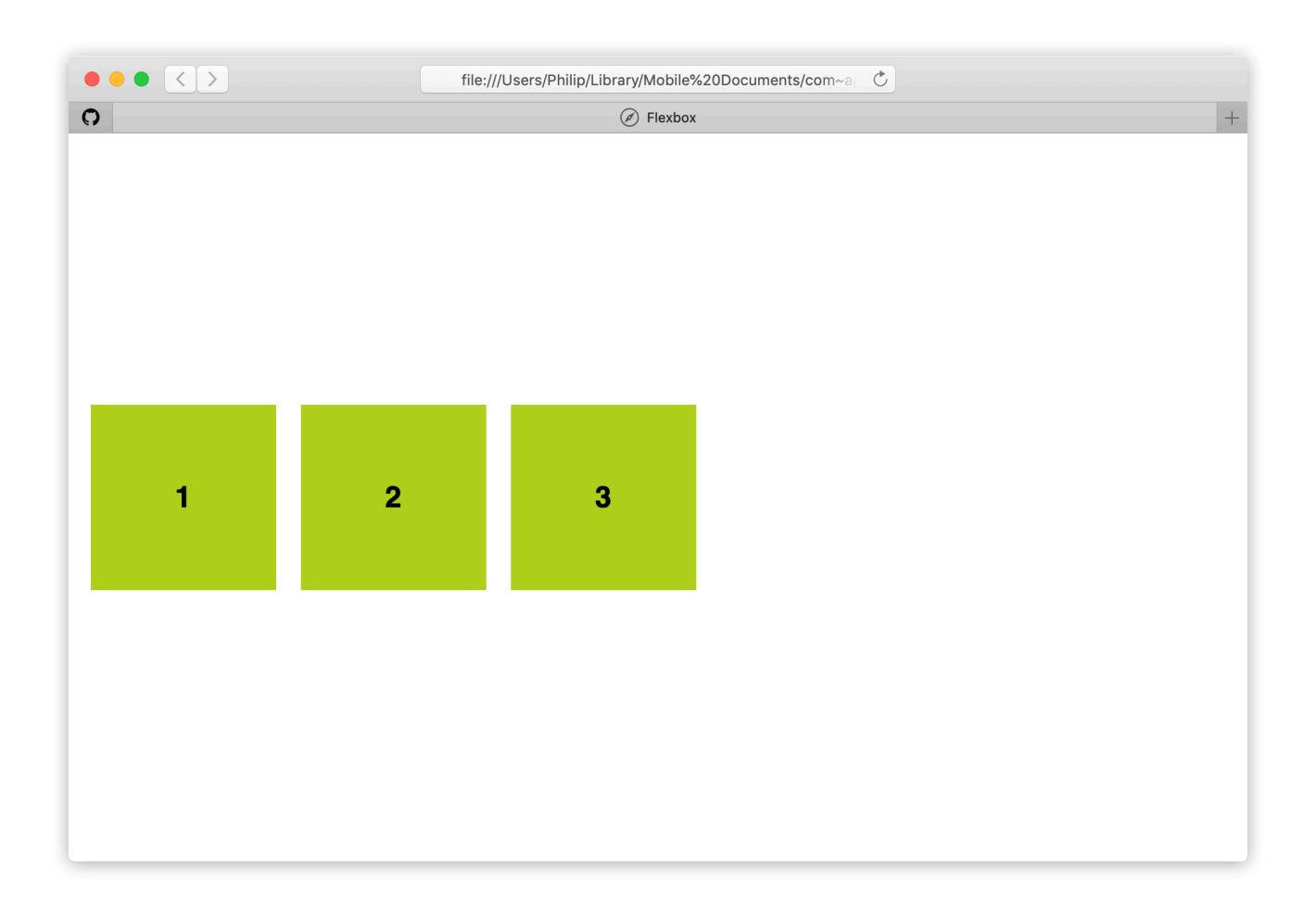
```
.flex {
    display: flex;
    align-items: flex-start; /* Similar to justify-content, but opposite axis */
}
```



```
.flex {
    display: flex;
    align-items: flex-end;
}
```



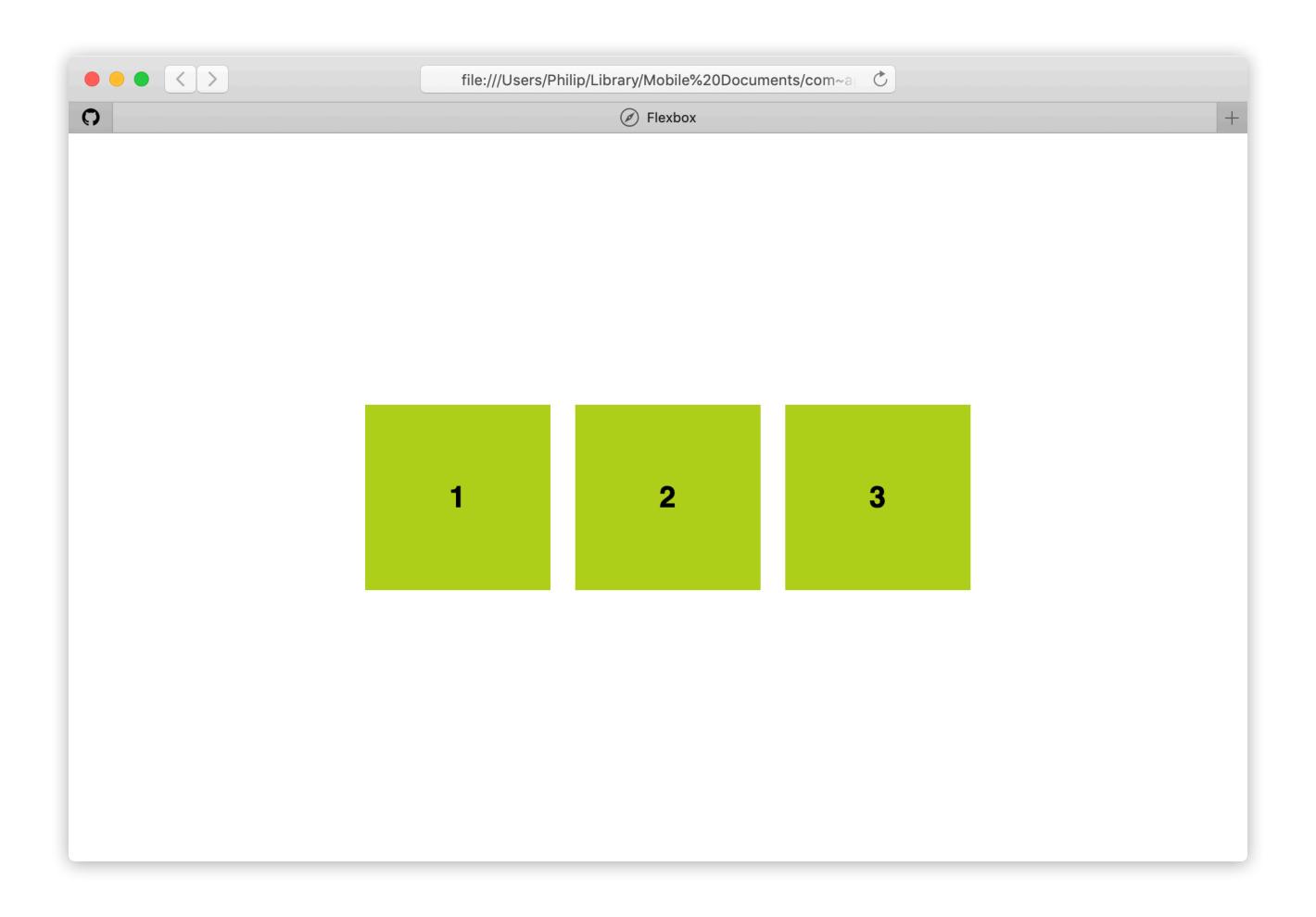
```
.flex {
    display: flex;
    align-items: center;
}
```

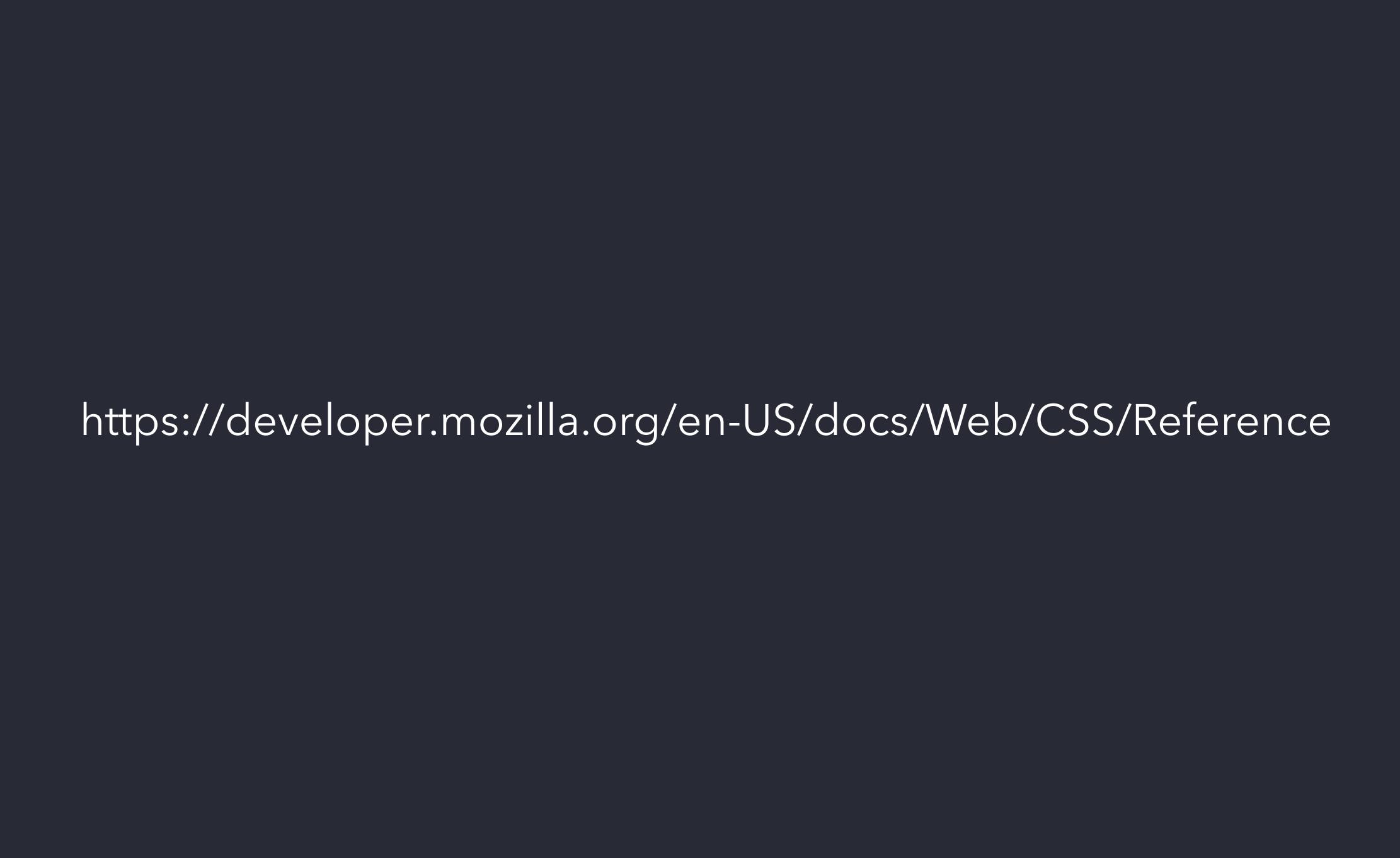


FLEXBOX: CENTER

```
.flex {
    display: flex;
    justify-content: center;
    align-items: center;
}
```

FLEXBOX: CENTER





QUESTIONS?