Webtechnologies

A11Y, JAVASCRIPT, BREAKPOINTS/MEDIAQUERIES

Source: Chris Foss. Cosmic Powers, 2017

EXERCISE 7B

- Try to solve the CSS exercises from https://short.jonasscheiwiller.ch/ex7b
  - Download HTML and CSS file
  - Work on styling and visually confirm changes in the browser

Webtechnologies

GITIGNORE

```
# Nuxt dev/build outputs
.output
.data
.nuxt
.nitro
.cache
dist

# Node dependencies
node_modules

# Logs
logs
*.log

# Misc
.DS_Store
.fleet
.idea
.stylelintcache
.eslintcache

# Local env files
.env
.env.*
!.env.example

# composer for imports
vendor/
```


```
# Node dependencies
node_modules

# Logs
logs
*.log

# Misc
.DS_Store
.fleet
.idea
.stylelintcache
.eslintcache

# Local env files
.env
.env.*
!.env.example

# composer for imports
vendor/
```

EXERCISE 7C

- Create a .gitignore file in the root of your git repo folder
- Add some files to ignore, create .env and see if Github Desktop picks up the changes

PATH-TO-YOUR-PROJECT-ROOT/.gitignore

```
.DS_Store
.env
```

PATH-TO-YOUR-PROJECT-ROOT/.env

CSS SPECIFICITY

Highest → Lowest

0	,	1	,	0	,	1
Inline styles		IDs		Classes, attributes and pseudo-classes		Elements and pseudo-elements

CSS SPECIFICITY

Specificity	Example
0,1,0,0	`#my-id {…}`
0,0,2,0	`.class1 .class2 {…}`
0,0,1,1	`p.class1 {…}`
0,1,1,0	`#my-id.class1 {…}`
0,0,1,0	`.class {…}`

CSS SPECIFICITY → IMPORTANT

```
margin: 3em !important;
color: blue !important;
border: 1px solid black !important;
```

Rule of Thumb: Don't use important!

QUIZ: RED OR BLUE?

```html
<!doctype html>

<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <meta name="description" content="">
  <title>Template</title>
</head>

<body>
  <div id="main">
    <section class="section" id="first-section">
      <div class="wrapper title-wrapper">
        <h1 class="heading">Salut 👋</h1>
        <ul class="list">
          <li class="list-item">List item 1</li>
          <li class="list-item">List item 2</li>
          <li class="list-item">List item 3</li>
        </ul>
      </div>
    </section>
  </div>
</body>

</html>
```

```css
h1.heading {
  color: red;
}

.wrapper .heading {
  color: blue;
}

```

```html
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <meta name="description" content="">
  <title>Template</title>
</head>

<body>
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          <li class="list-item">List item 2</li>
          <li class="list-item">List item 3</li>
        </ul>
      </div>
    </section>
  </div>
</body>

</html>
```

```css
h1.heading {
  color: red;
}

.wrapper .heading {
  color: blue;
}

```

```html
<head>
  <meta charset="utf-8">
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          <li class="list-item">List item 3</li>
        </ul>
      </div>
    </section>
  </div>
</body>

</html>
```

```css
div .heading {
  color: red;
}

h1.heading {
  color: blue;
}

```

```html
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <meta name="description" content="">
  <title>Template</title>
</head>

<body>
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          <li class="list-item">List item 1</li>
          <li class="list-item">List item 2</li>
          <li class="list-item">List item 3</li>
        </ul>
      </div>
    </section>
  </div>
</body>

</html>
```

```css
section .heading {
  color: red;
}

h1 .heading {
  color: blue;
}
```

```html
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <meta name="description" content="">
  <title>Template</title>
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<body>
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        <h1 class="heading">Salut 👋</h1>
        <ul class="list">
          <li class="list-item">List item 1</li>
          <li class="list-item">List item 2</li>
          <li class="list-item">List item 3</li>
        </ul>
      </div>
    </section>
  </div>
</body>

</html>
```

```css
#first-section .heading {
  color: red;
}

.section div .heading {
  color: blue;
}
```

```html
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <meta name="description" content="">
  <title>Template</title>
</head>

<body>
  <div id="main">
    <section class="section" id="first-section">
      <div class="wrapper title-wrapper">
        <h1 class="heading">Salut 👋</h1>
        <ul class="list">
          <li class="list-item">List item 1</li>
          <li class="list-item">List item 2</li>
          <li class="list-item">List item 3</li>
        </ul>
      </div>
    </section>
  </div>
</body>

</html>
```

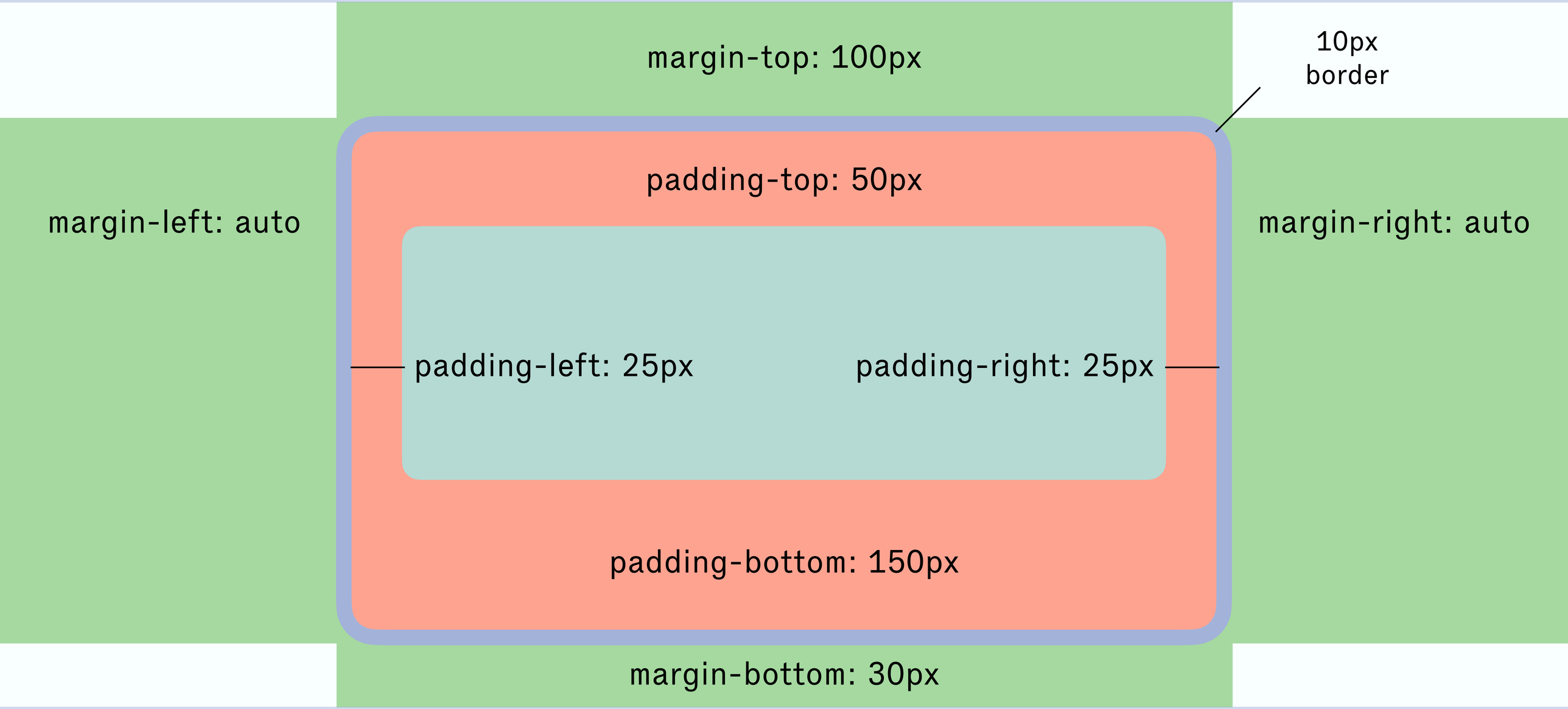
```css
div #first-section li {
  color: red;
}

#main ul li.list-item {
  color: blue;
}
```

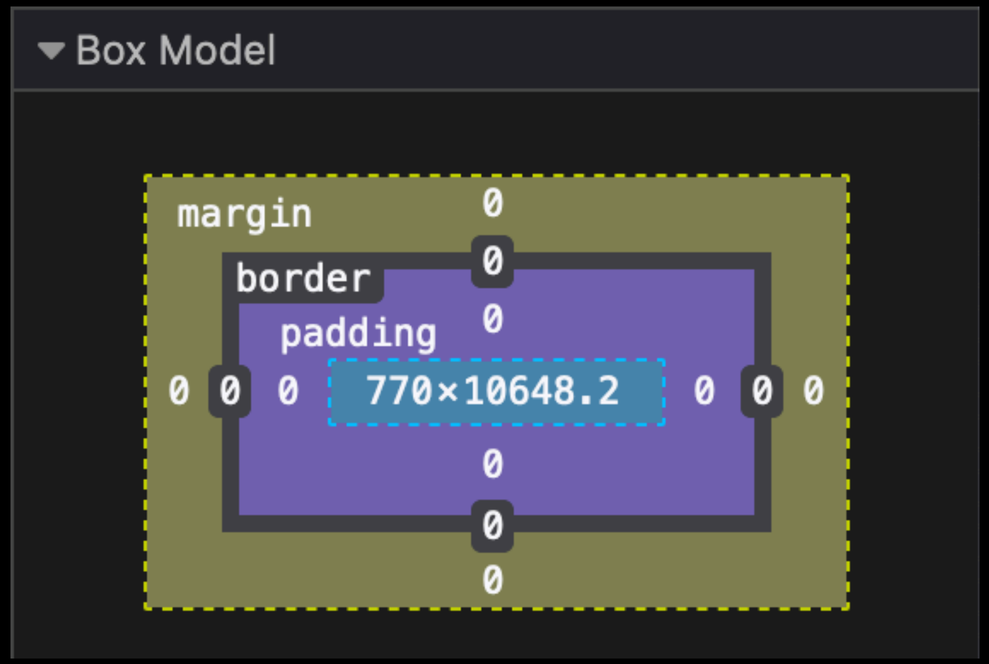
DIVS AND THE BOX MODEL

- The box-model
  - Padding, margin and border
- Display
- Positioning
  - absolute, fixed, relative, static

BOX MODEL

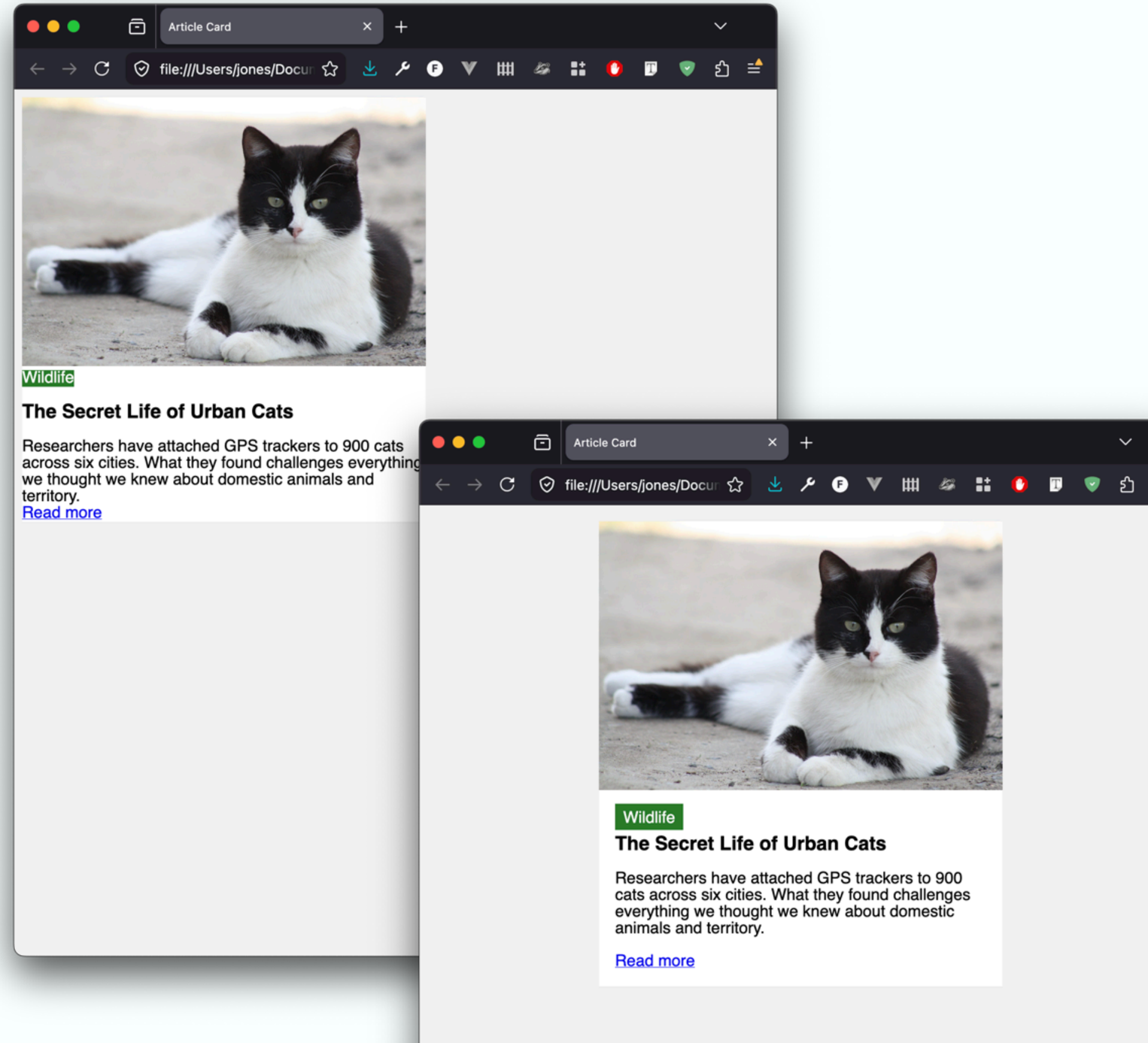

margin-top: 100px
10px
border
margin-left: auto
margin-right: auto
padding-top: 50px
padding-left: 25px
padding-right: 25px
padding-bottom: 150px
margin-bottom: 30px

BOX MODEL



EXERCISE 8

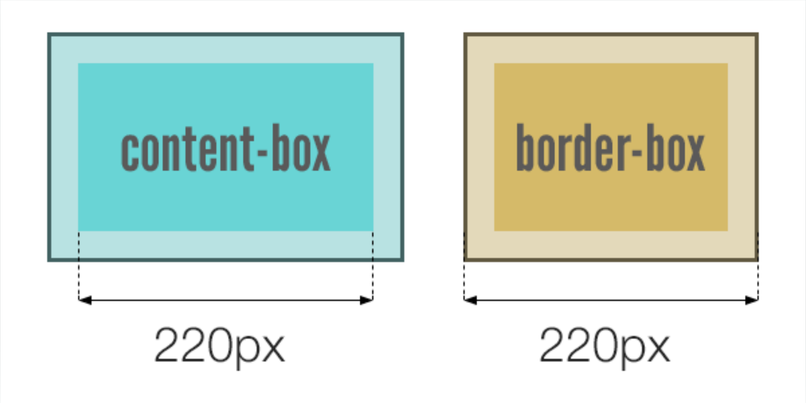
- Fix spacings in the cat article https://short.jonasscheiwiller.ch/ex8
  - Download HTML and CSS file
  - Comments in CSS might help



BOX-SIZING PROPERTY

- Include padding and border in the element's total width and height.
- What is * ?

```
* {
  box-sizing: border-box;
}
```



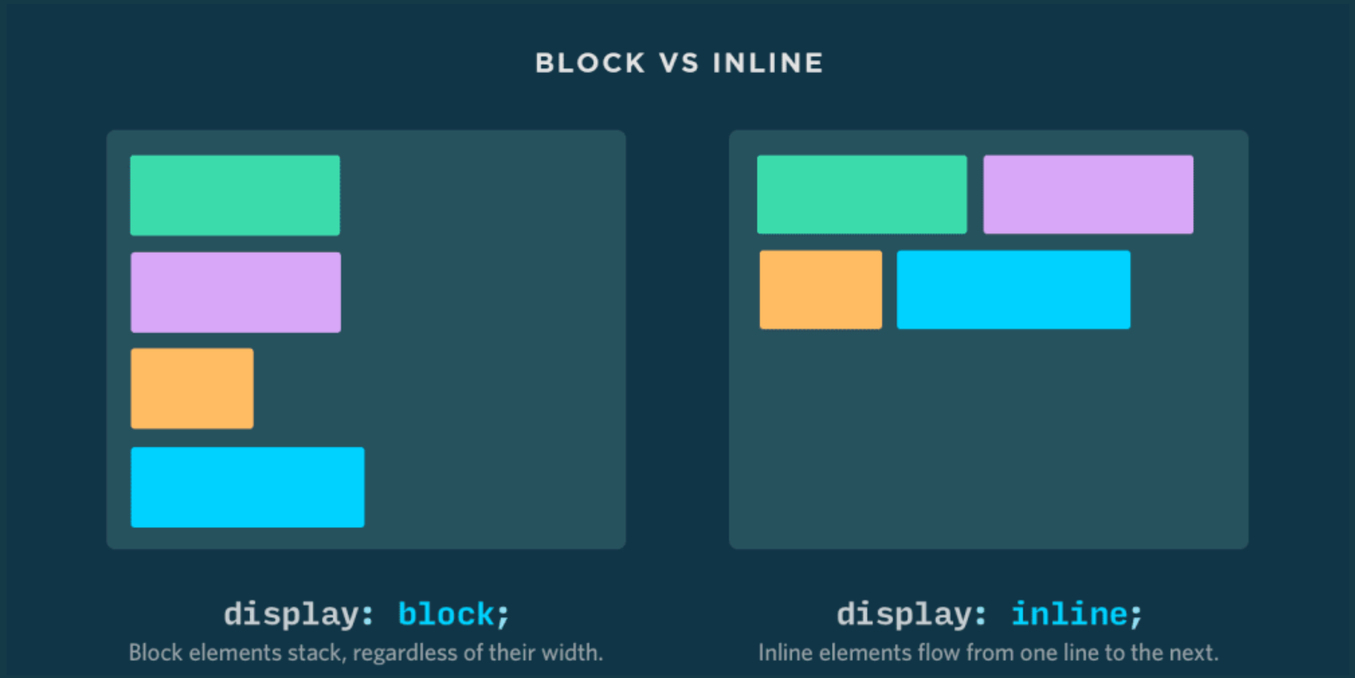
DISPLAY

Most used display values.

```
display: block;
display: inline;
display: inline-block;
display: flex;
display: inline-flex;
display: grid;
display: inline-grid;
```

MDN: display property
https://developer.mozilla.org/en-US/docs/Web/CSS/display

DISPLAY: INLINE VS. BLOCK



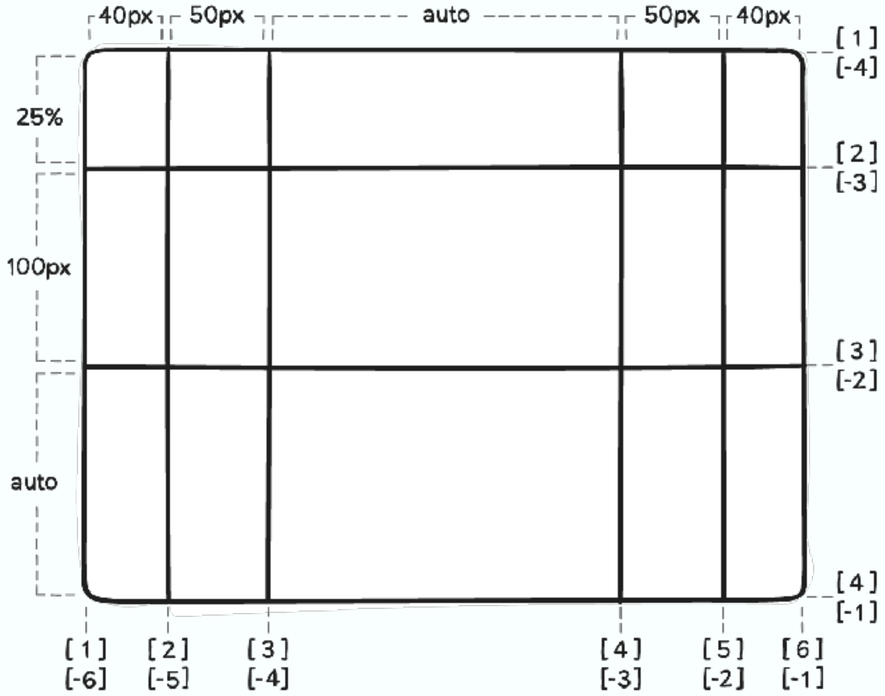
https://res.cloudinary.com/practicaldev/image/fetch/s--y9knEwLf--/c_imagga_scale,f_auto,fl_progressive,h_500,q_auto,w_1000/https://dev-to-uploads.s3.amazonaws.com/i/t6vbjui1jm8q52osgfcj.png

DISPLAY: FLEX AND GRID

Flexbox

"FLEX CONTAINER"

"FLEX ITEMS"

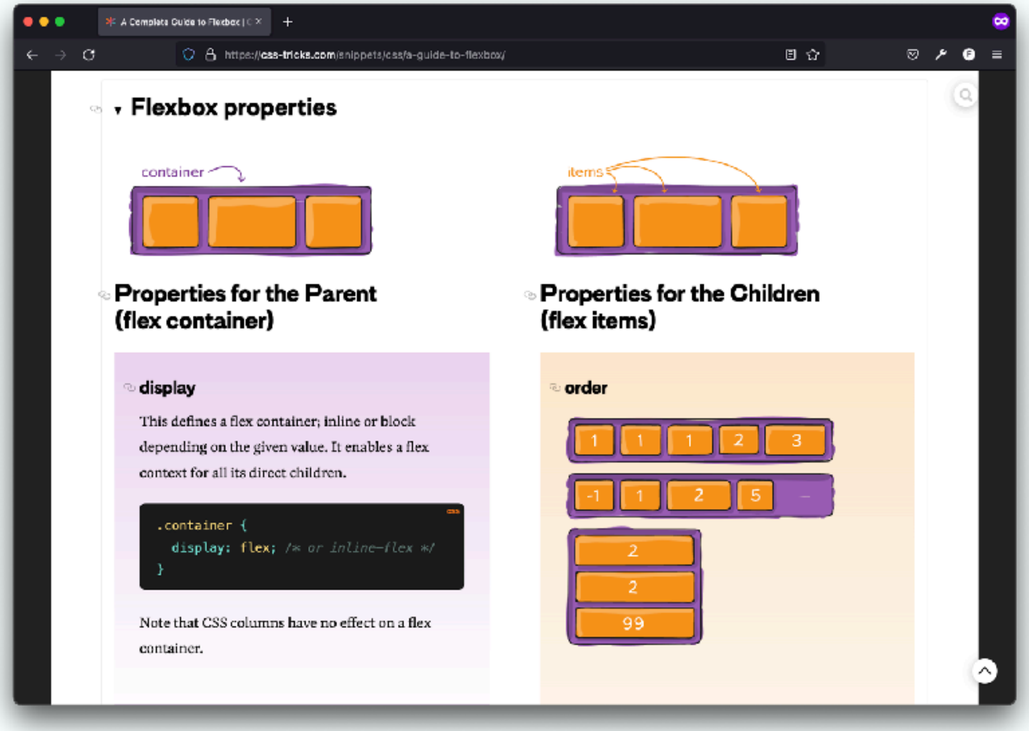


CSS Grid

Source:
https://internetingishard.netlify.app/html-and-css/flexbox/

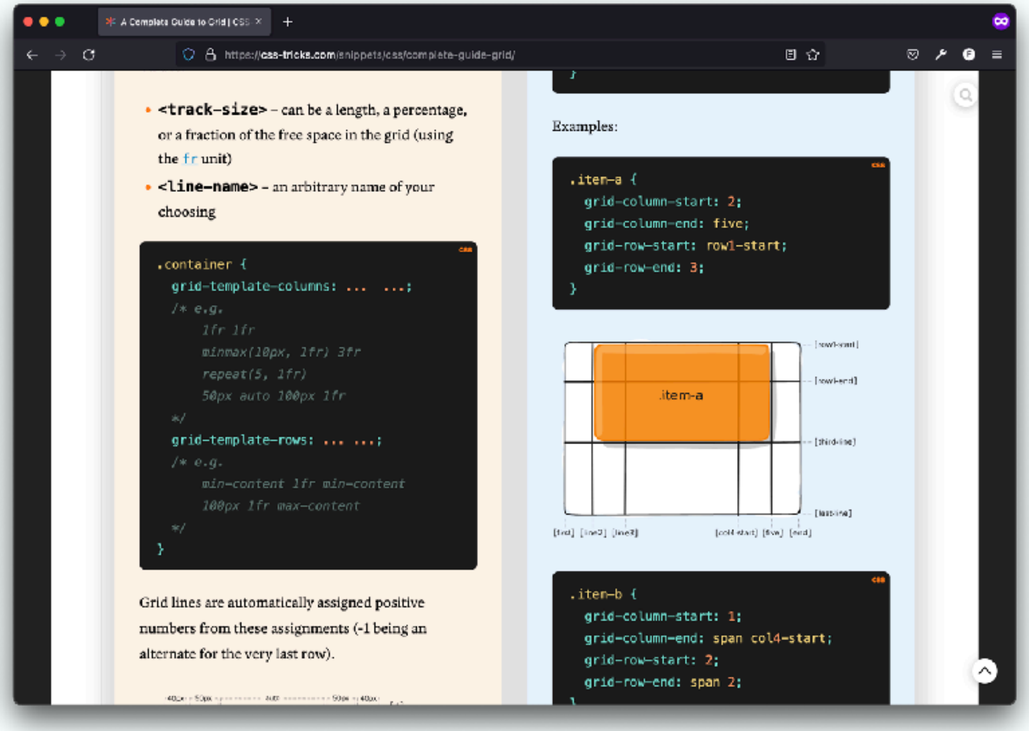
DISPLAY: FLEX AND GRID

Flexbox



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

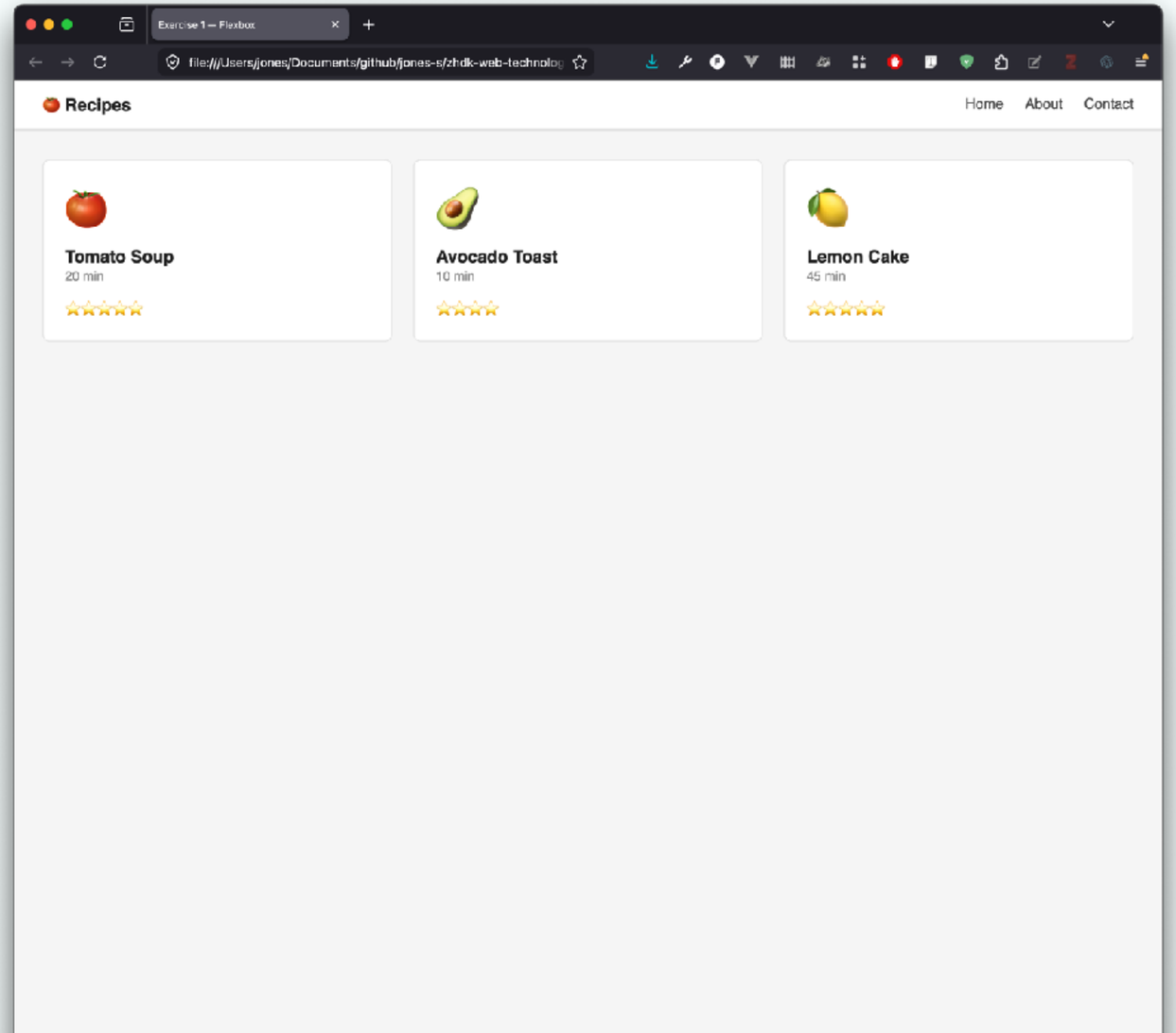
CSS Grid



https://css-tricks.com/snippets/css/complete-guide-grid/

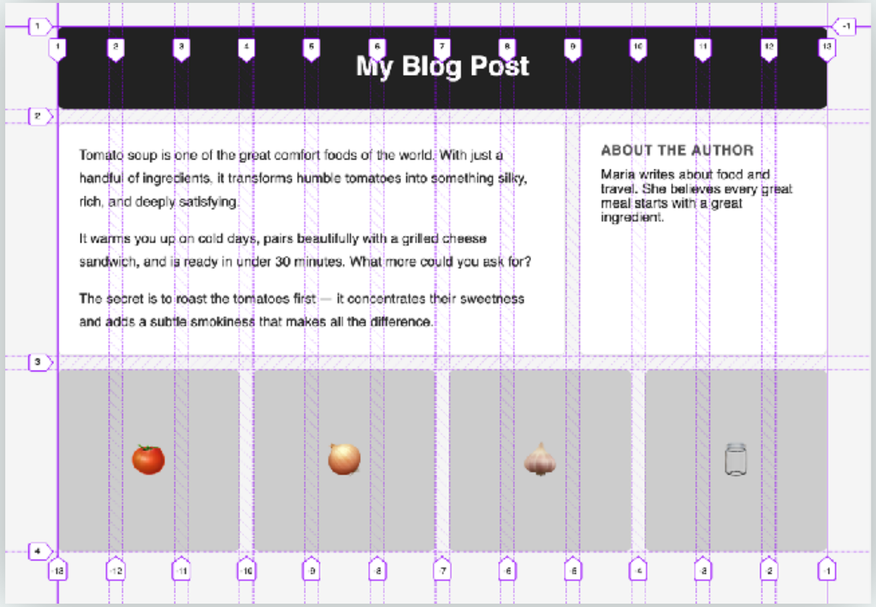
EXERCISE 9

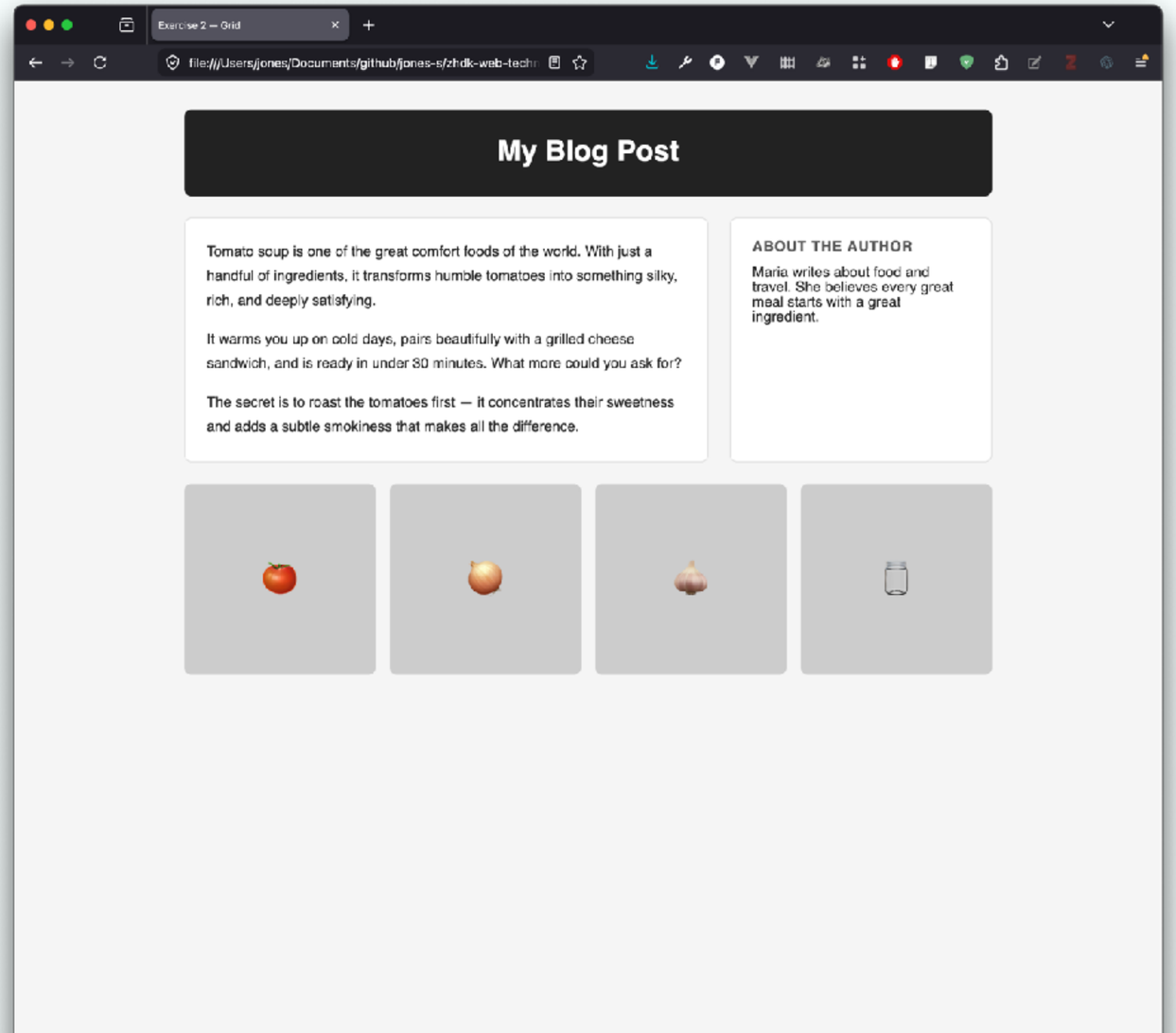
- Use flexbox to style this page
- Download HTML and CSS: https://short.jonasscheiwiller.ch/ex9
- *final.png* in the folder shows the desired state.



EXERCISE 10

- Use grid to style this page
- Use a 12 column grid
- Download HTML and CSS
  https://short.jonasscheiwiller.ch/ex10
- *final.png* in the folder shows the desired state.



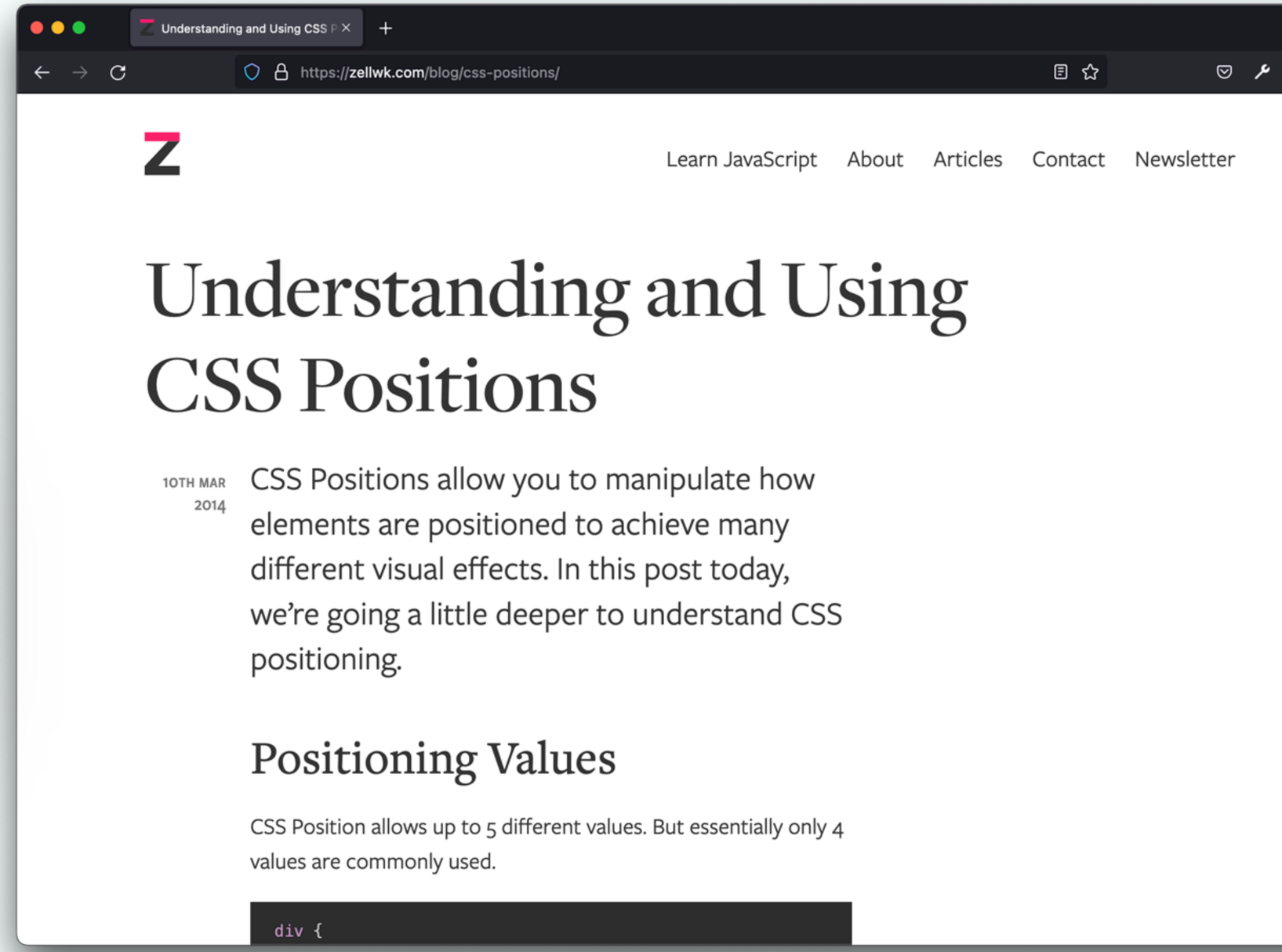


EXERCISE 10

```
.selector {
  display: grid;
  grid-template-columns: repeat(12, 1fr);
  gap: 1rem;
}
```

POSITIONING

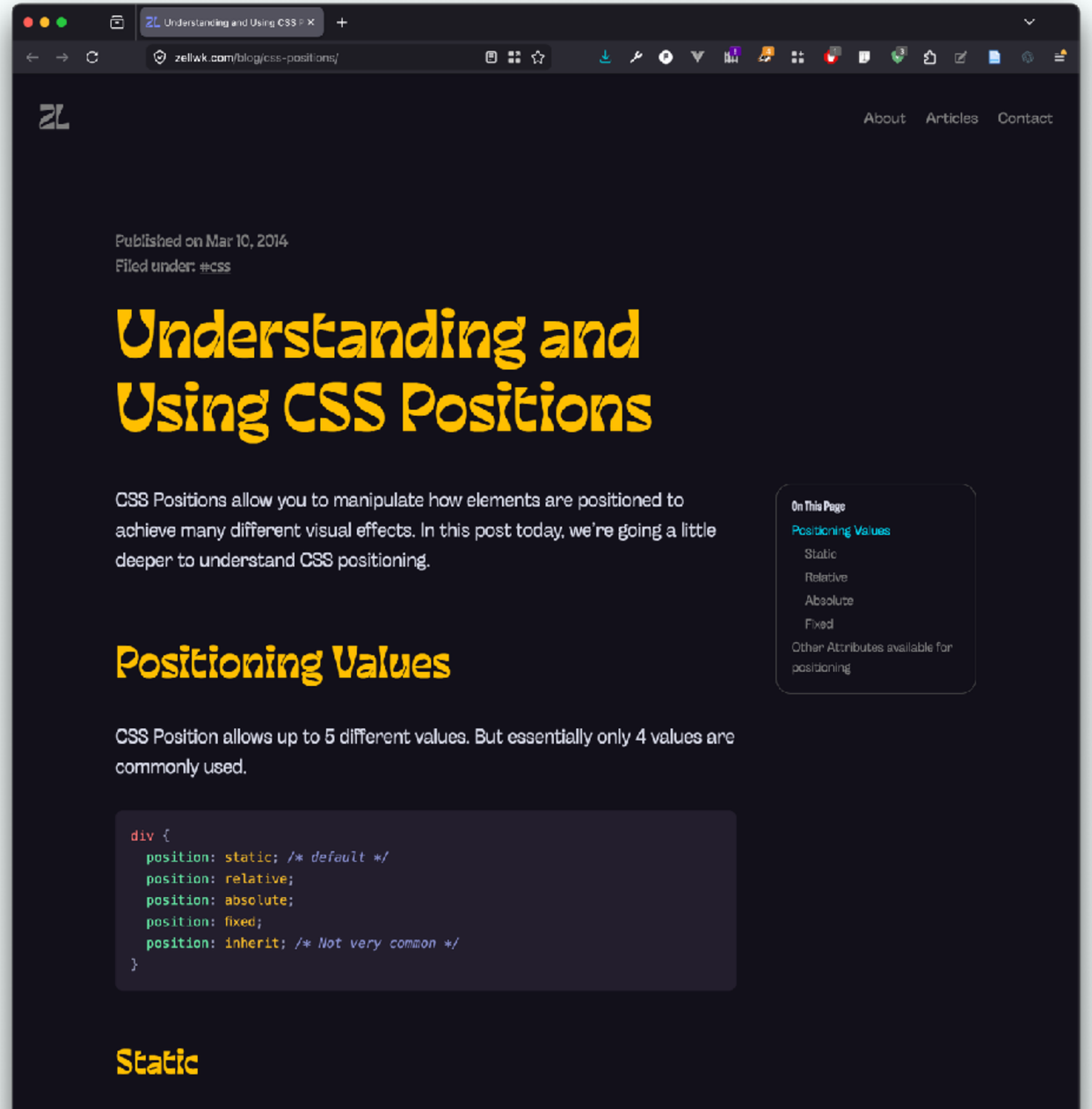
```
position: static; /* default */
position: relative;
position: absolute;
position: fixed;
position: inherit; /* Not very common */
```



https://zellwk.com/blog/css-positions/

EXERCISE 11

- Read zellwk.com/blog/css-positions/
- Note down questions



POSITIONING → DISCUSSION

GITHUB DESKTOP

- Push all your changes to your git repo
- Make multiple meaningful commits