Web Programming with Python and JavaScript

Web Programming

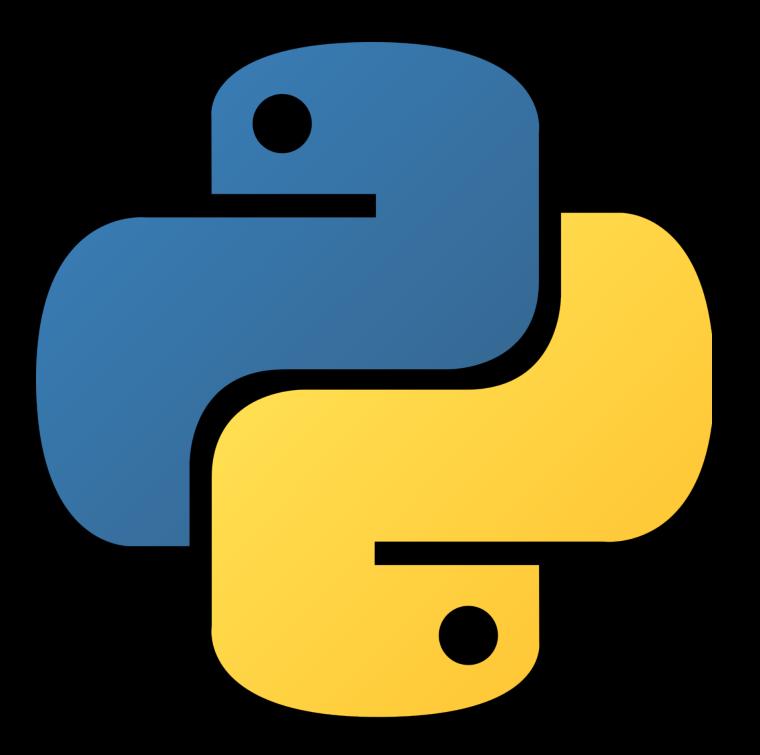
HTML and CSS



Git



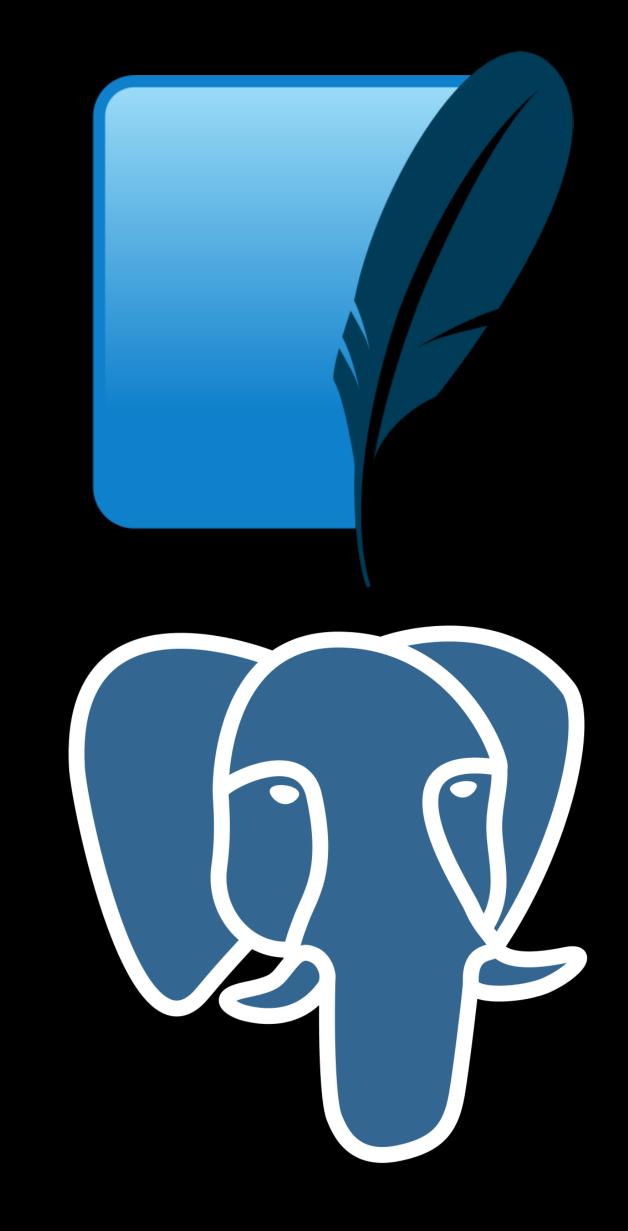
Python



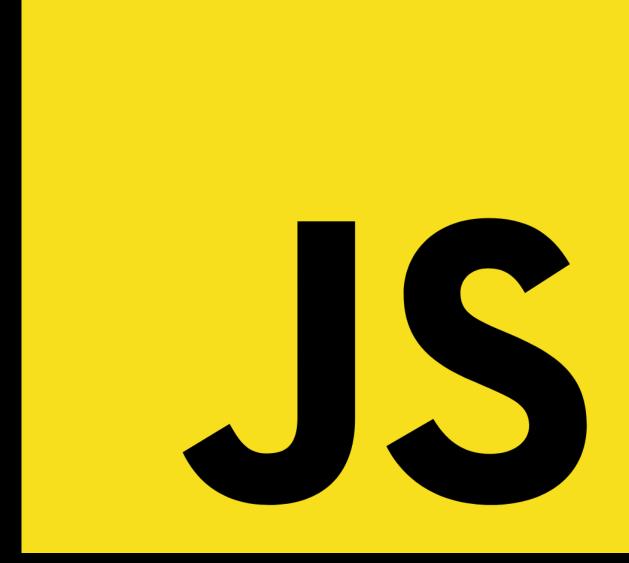
Django



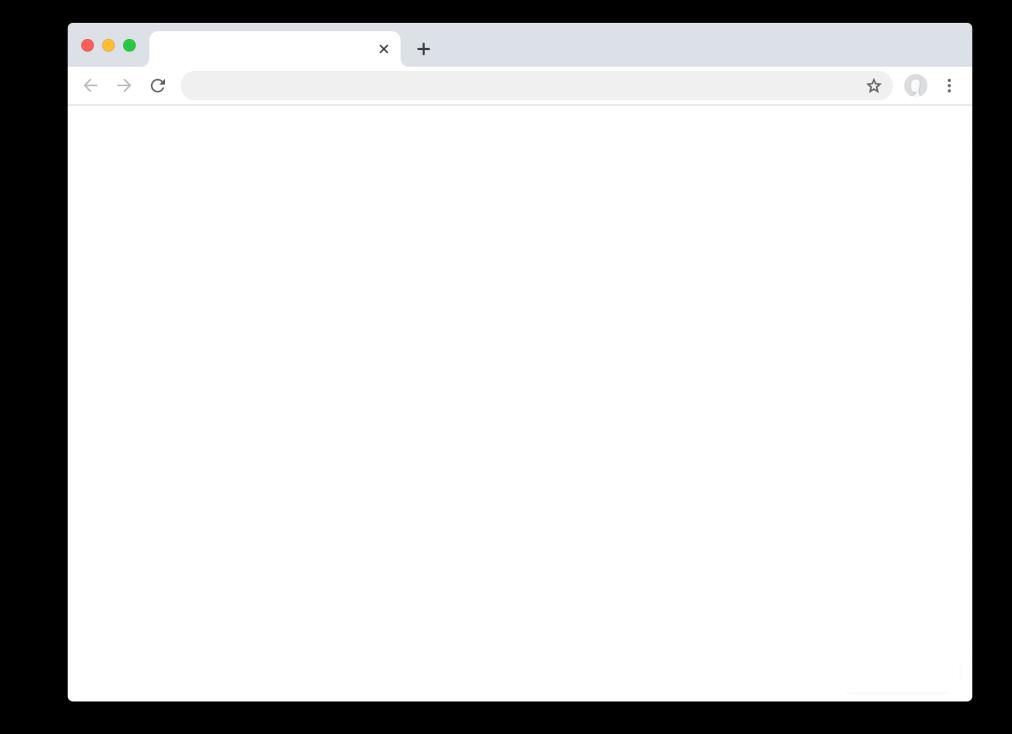
SQL, Models, and Migrations



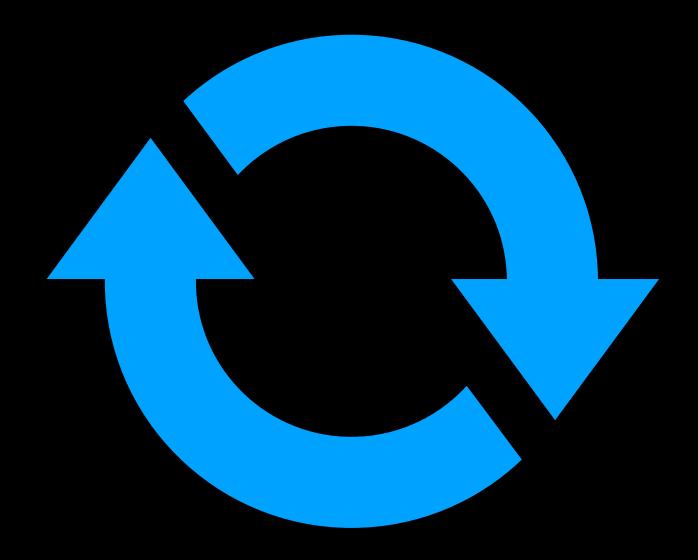
JavaScript



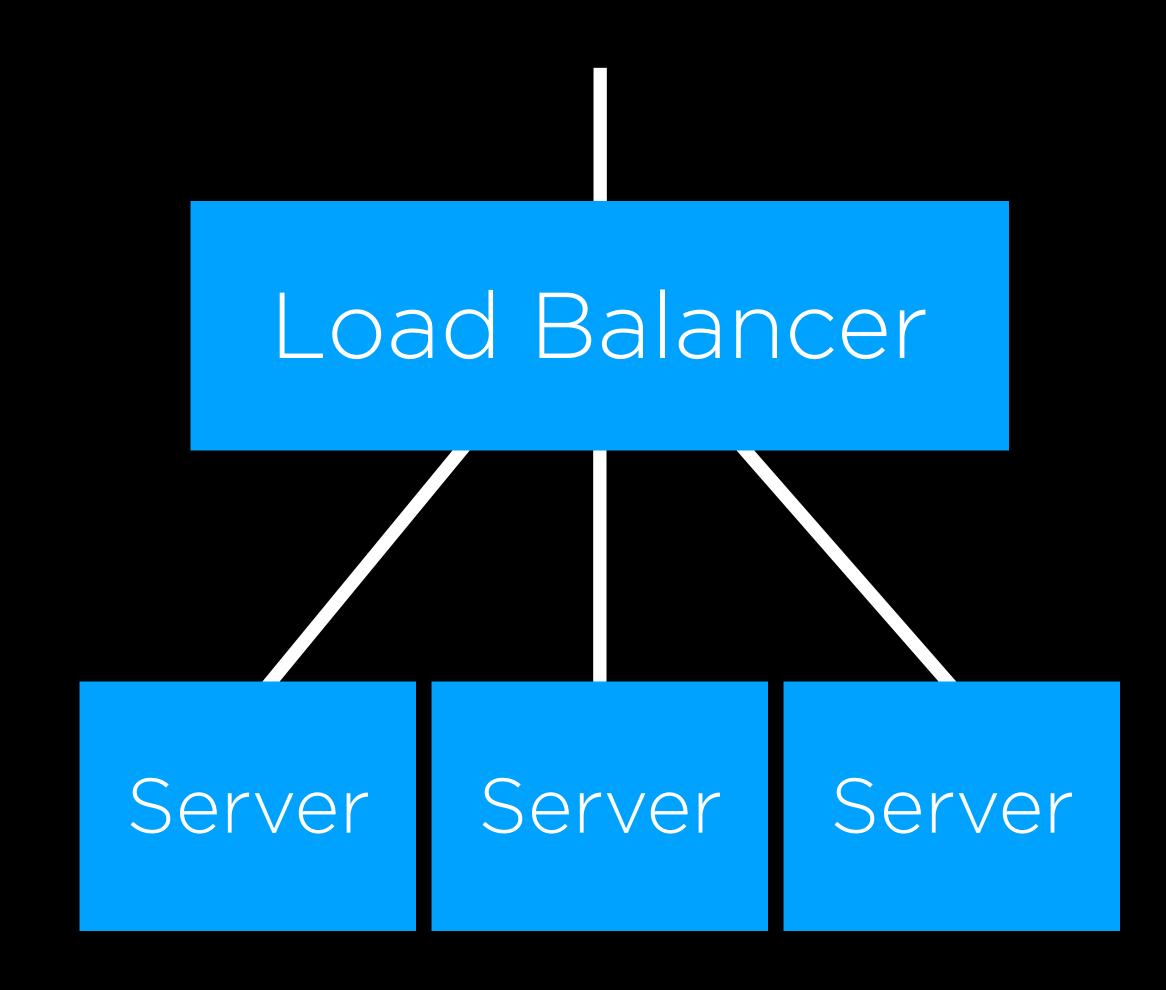
User Interfaces



Testing and CI/CD



Scalability and Security



HTML and CSS


```
<!DOCTYPE html>
<html lang="en">
    <head>
        <title>Hello!</title>
    </head>
    <body>
        Hello, world!
    </body>
</html>
```

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<!DOCTYPE html>
<html lang="en">
    <head>
        <title>Hello!</title>
    </head>
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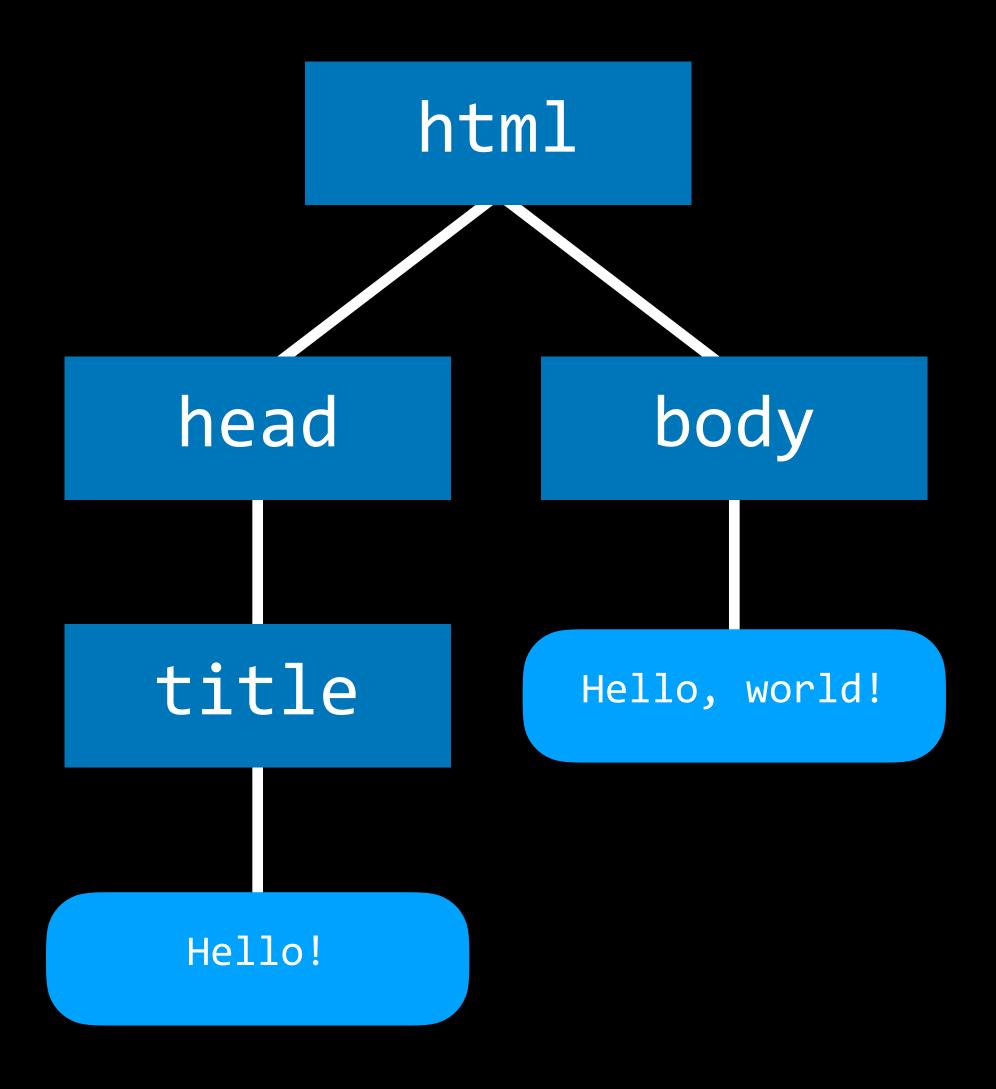
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Document Object Model

```
<!DOCTYPE html>
<html lang="en">
    <head>
        <title>Hello!</title>
    </head>
    <body>
        Hello, world!
    </body>
</html>
```



Common HTML Tags

```
• <h1>, <h2>, ..., <h6>
```

- ,
-
- <a>>
- •
- <form>
- . . .

CSS

Common CSS Properties

- color
- text-align
- width, height
- margin, padding
- font-family, font-size, font-weight
- border
- . . .

Identifying Elements

- div
- span
- id
- class

- 1. inline
- 2. id
- 3. class
- 4. type

```
<div id="foo">
    Hello!
</div>
div {
    color: blue;
}
```

Hello!

```
<div id="foo">
    Hello!
</div>
div {
  color: blue;
#foo
  color: red;
```

Hello!

```
<div id="foo">
    Hello!
</div>
#foo {
  color: red;
div
  color: blue;
```

Hello!

CSS Selectors

a, b	Multiple Element Selector
a b	Descendant Selector
a > b	Child Selector
a + b	Adjacent Sibling Selector
[a=b]	Attribute Selector
a:b	Pseudoclass Selector
a::b	Pseudoelement Selector

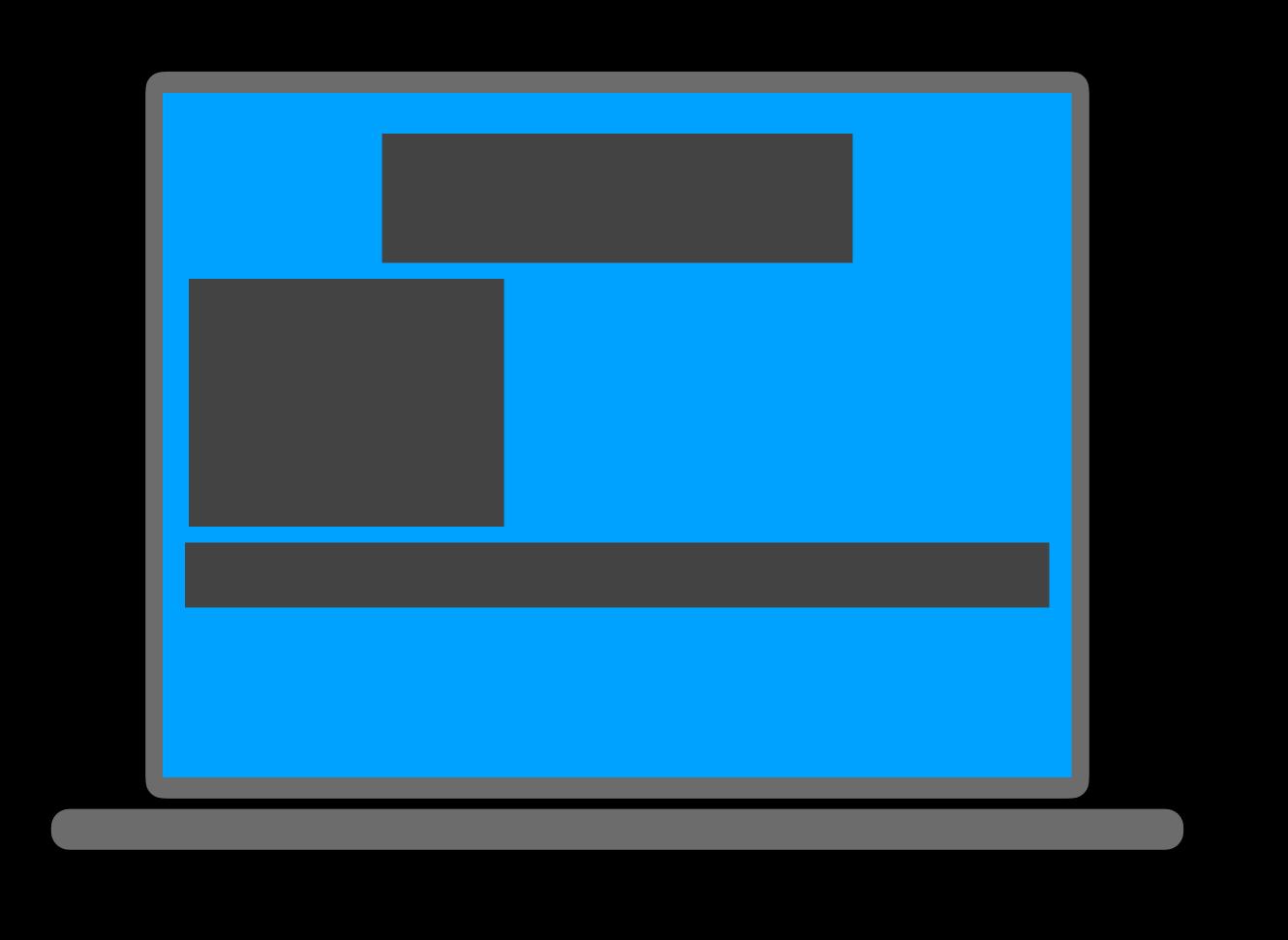
Responsive Design

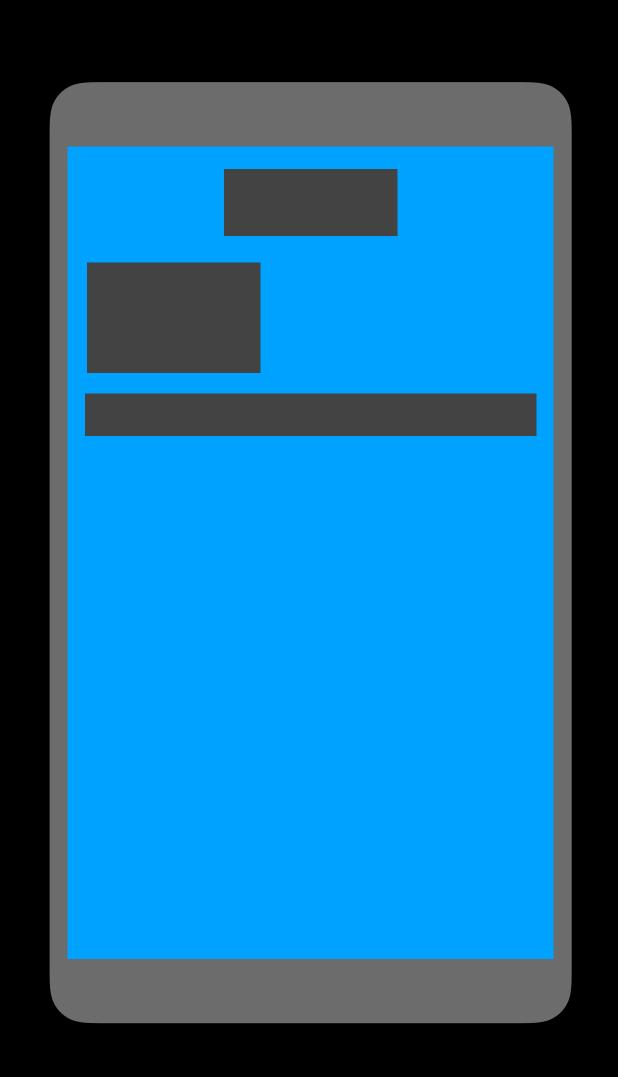
Responsive Design

- viewport
- Media Queries
- Flexbox
- Grids

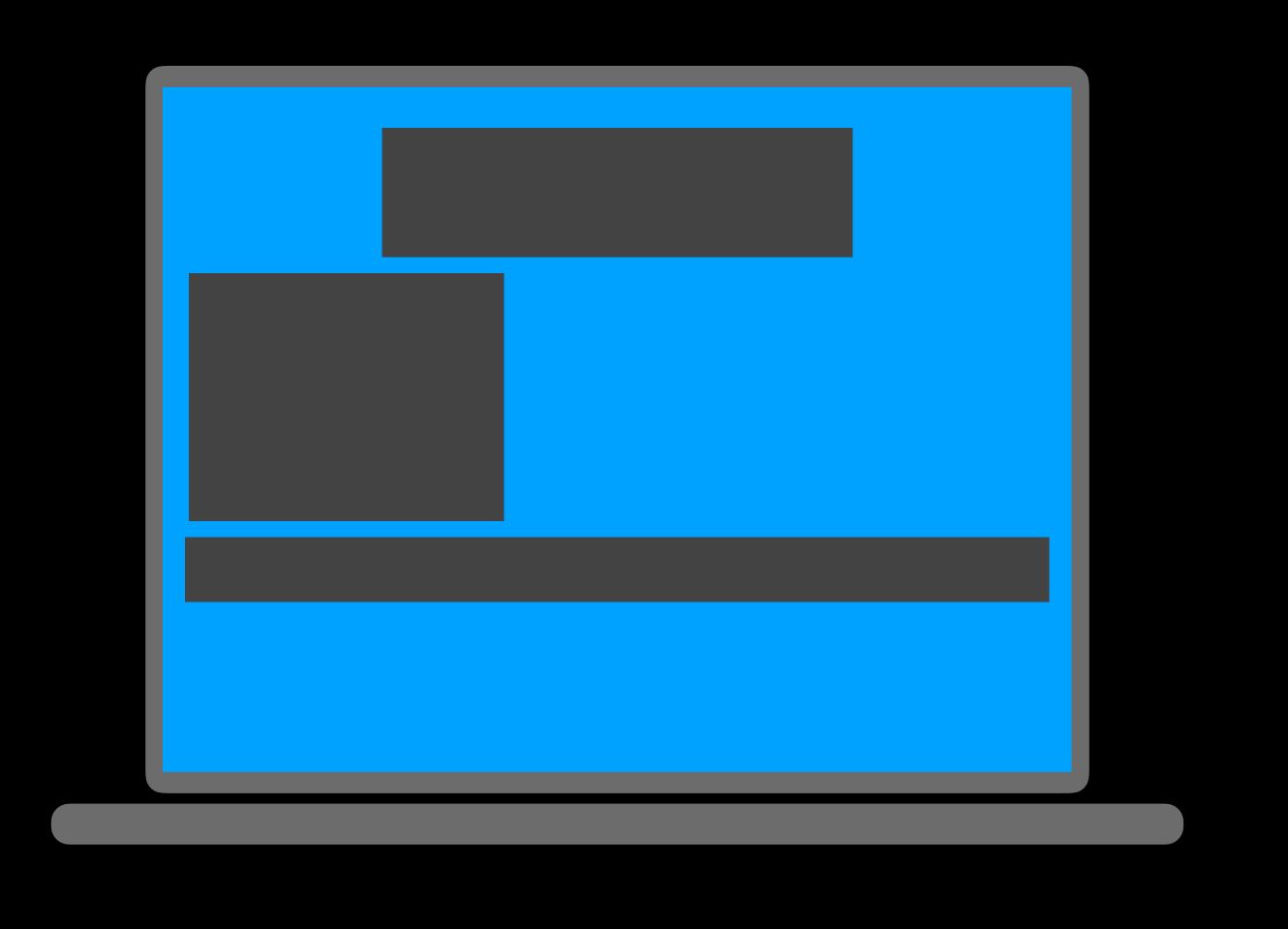
<meta name="viewport" content="width=device-width, initial-scale=1.0">

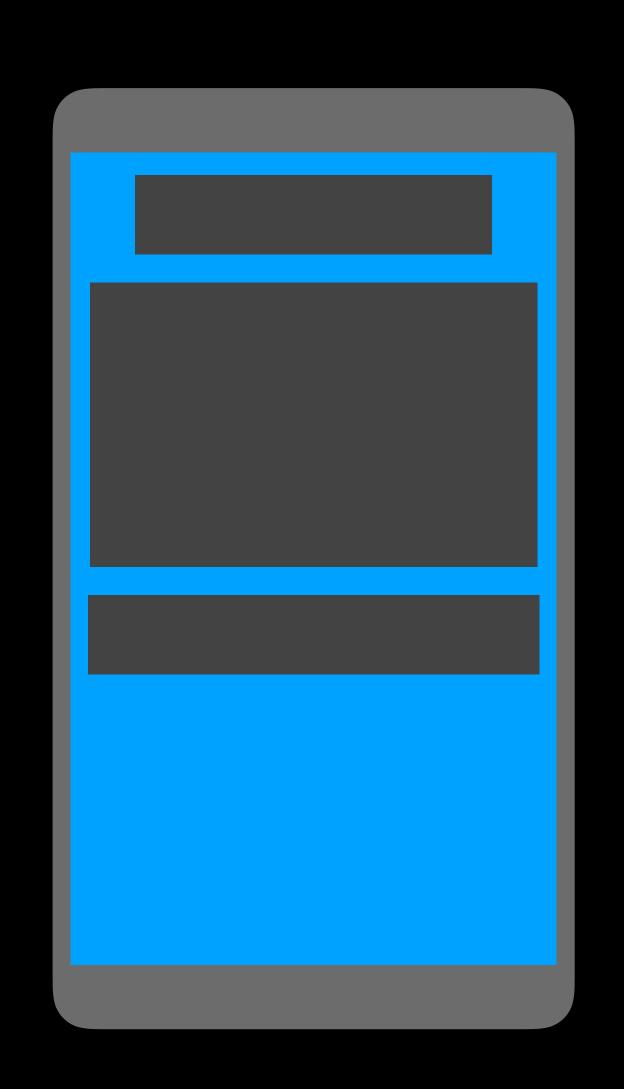
Viewport





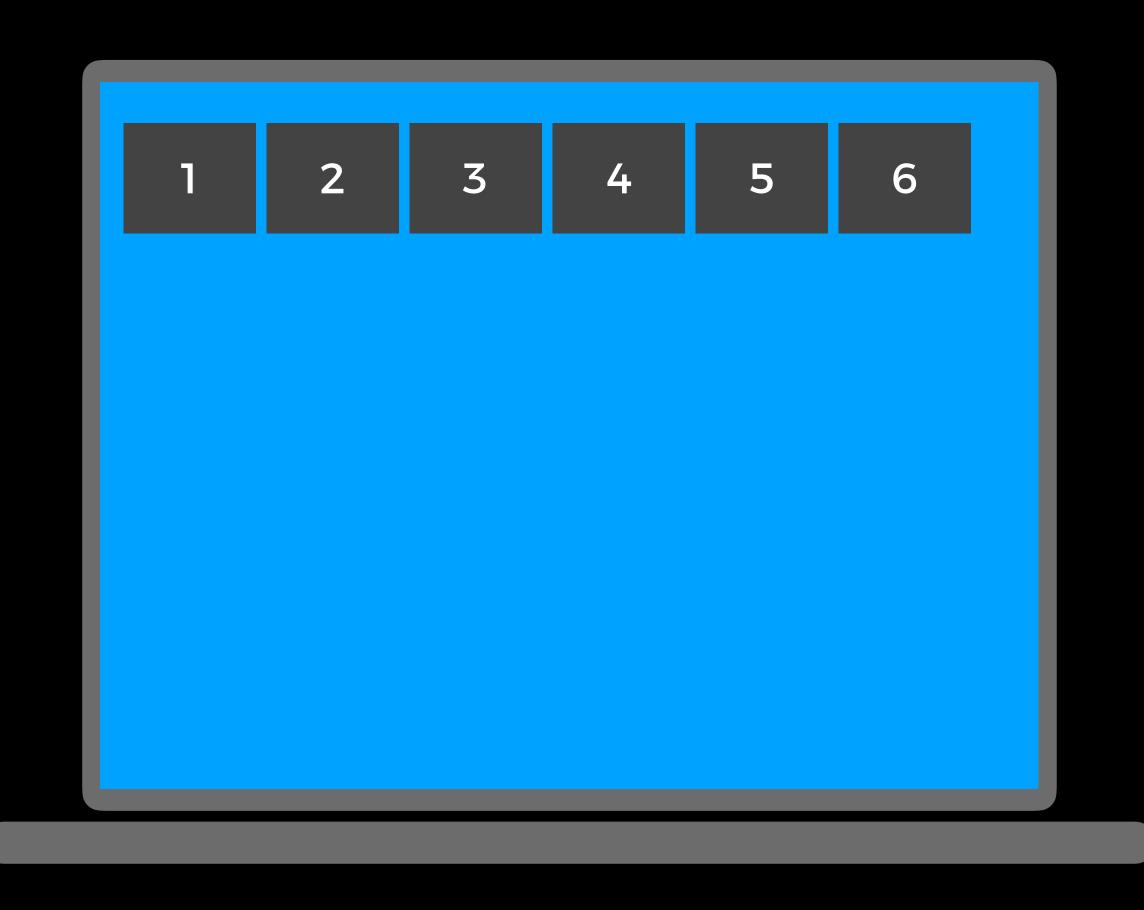
Viewport



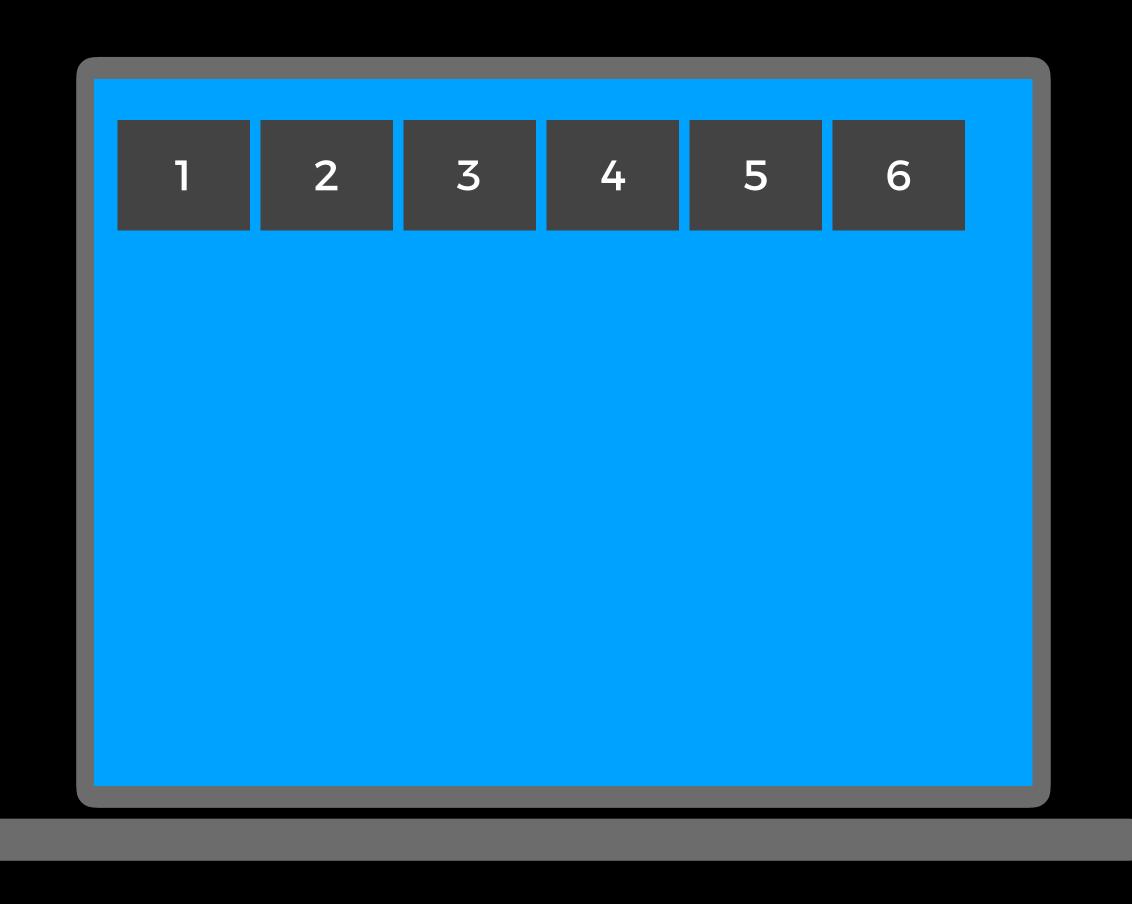


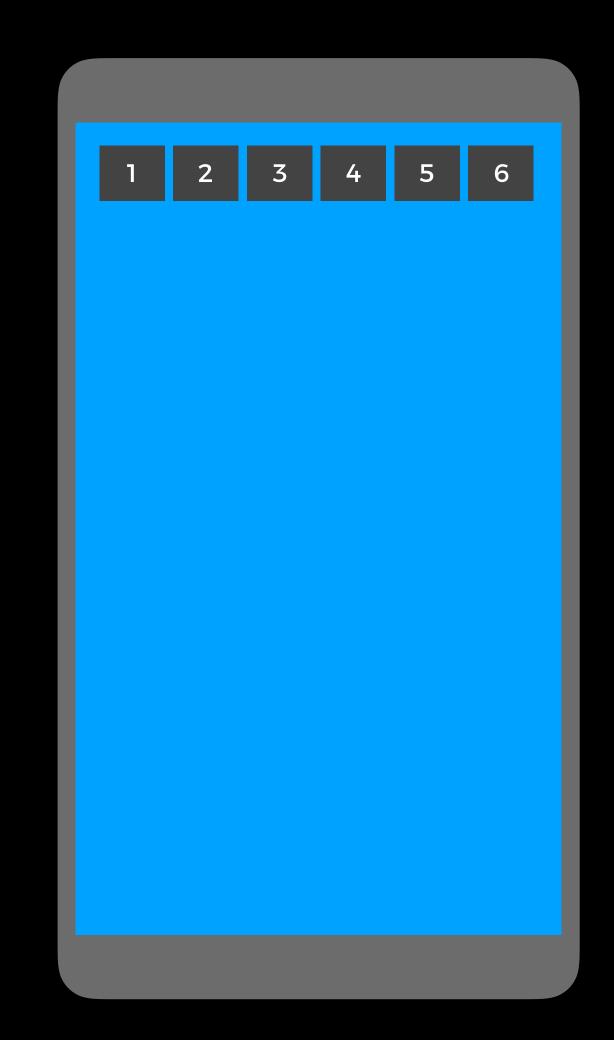
Media Queries

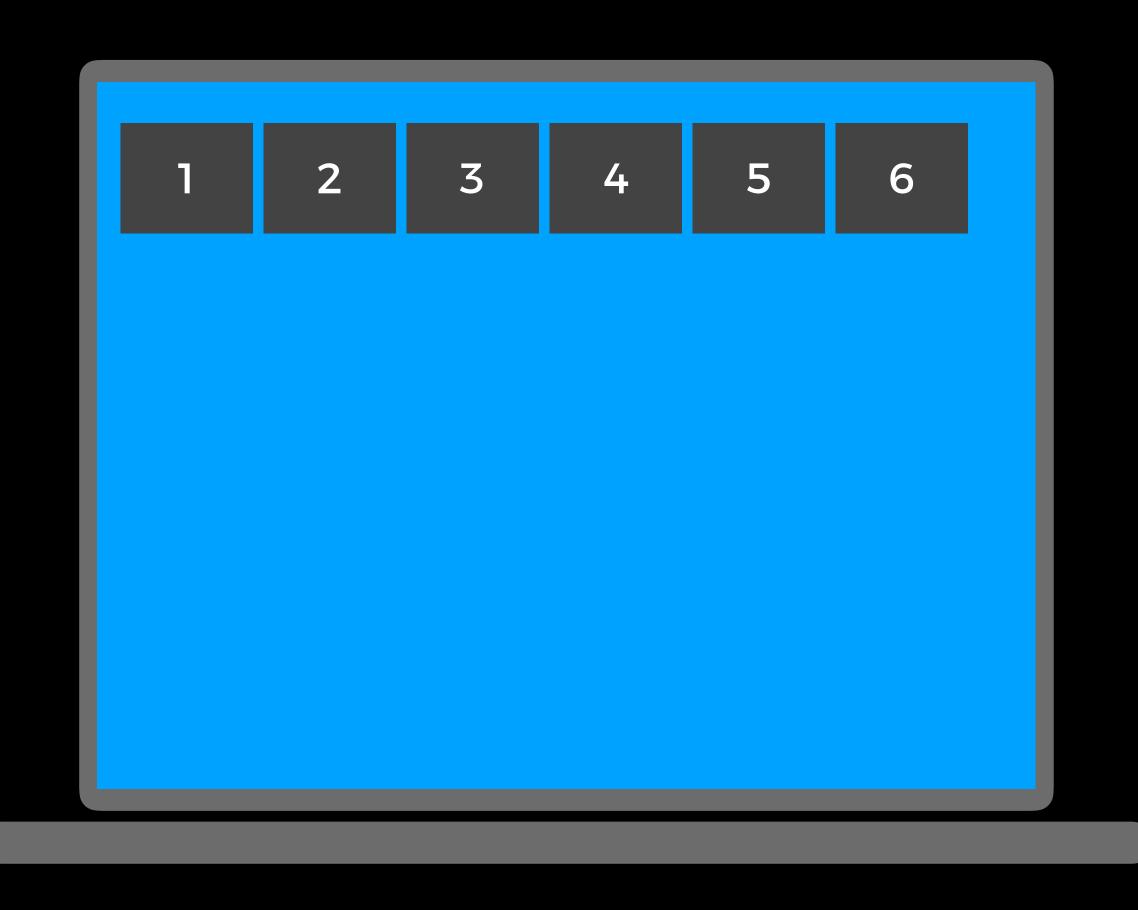
- Media Types: print, screen, ...
- Media Features: height, width, orientation, ...

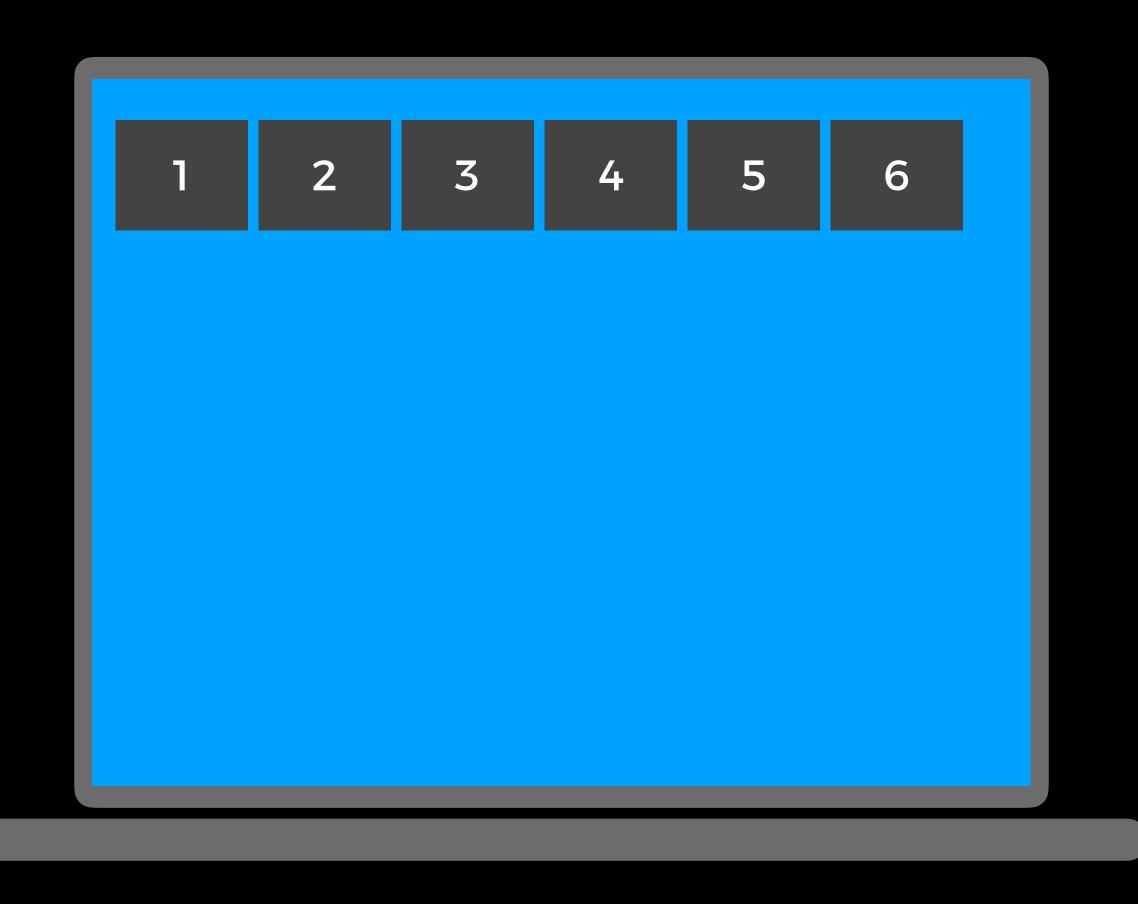


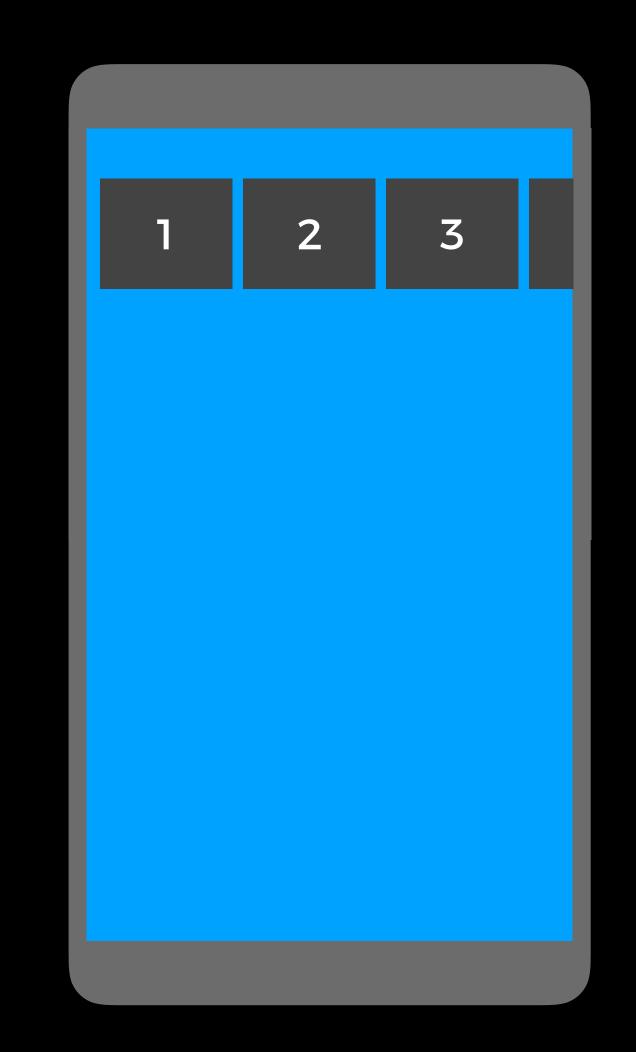
Flexbox

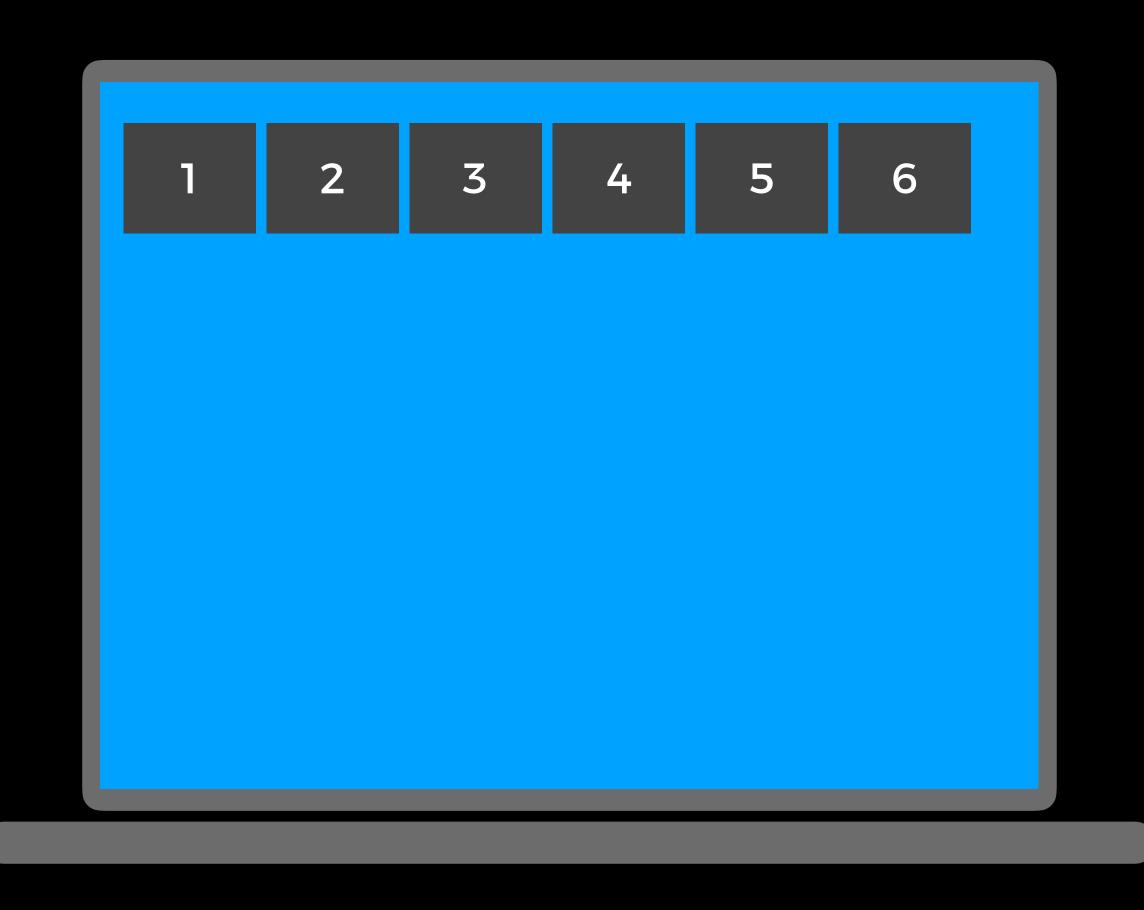




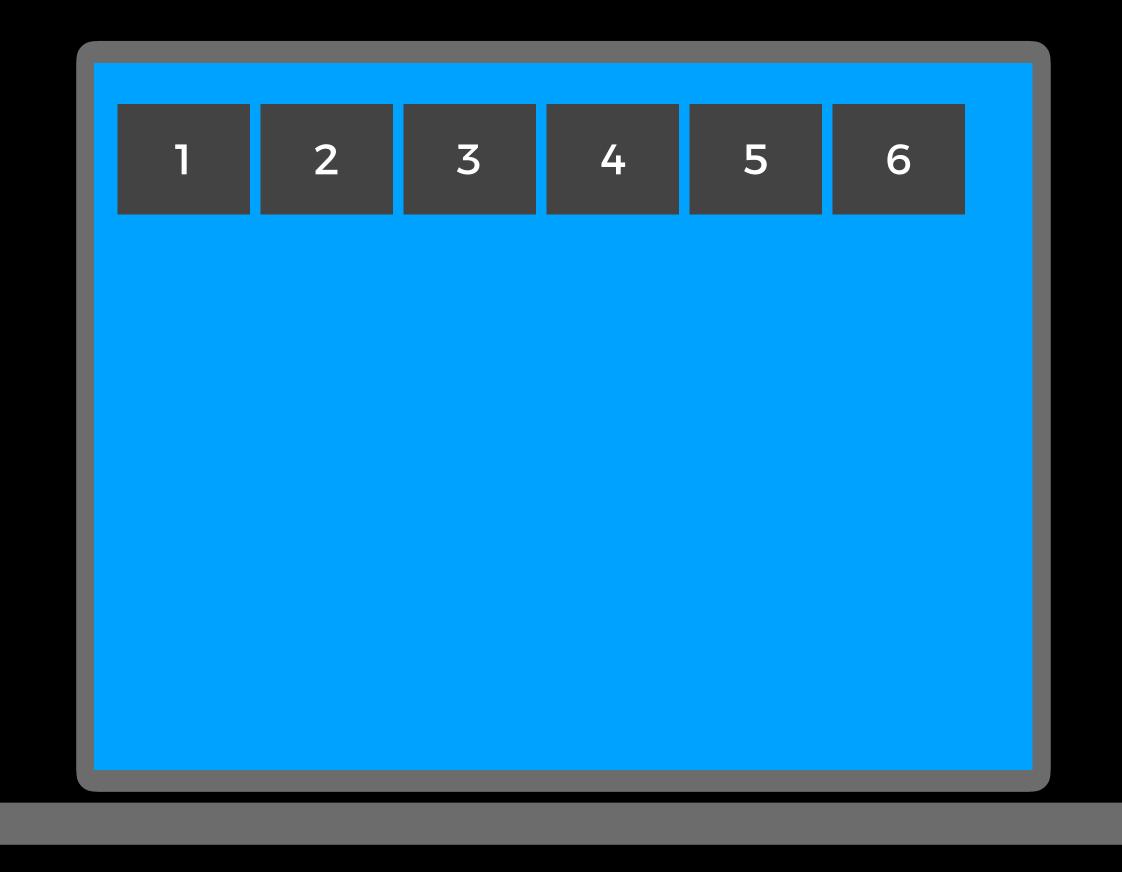




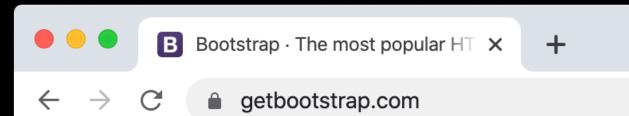




Flexbox



Bootstrap



☆ (7) :



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Bootstrap

Build responsive, mobile-first projects on the web with the world's most popular front-end component library.

Bootstrap is an open source toolkit for developing with HTML, CSS, and JS. Quickly prototype your ideas or build your entire app with our Sass variables and mixins, responsive grid system, extensive prebuilt components, and powerful plugins built on jQuery.

Get started

Download



Sass

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