

**SECTION 1 –  
WELCOME, WELCOME,  
WELCOME!**

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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SECTION

WELCOME, WELCOME, WELCOME!

LECTURE

WELCOME TO THE MOST ADVANCED CSS COURSE EVER!

02

Natours Project – Setup and First Steps (Part 1)

03

How CSS Works: A Look Behind the Scenes

04

Introduction to Sass and NPM

05

Natours Project – Using Advanced CSS and Sass (Part 2)

06

Natours Project – Advanced Responsive Design (Part 3)

07

Trillo Project – Master Flexbox!

08

Master CSS Grid Layouts *[Available Late 2017]*

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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SECTION

WELCOME, WELCOME, WELCOME!

LECTURE

SETTING UP OUR TOOLS

**SECTION 2 –  
NATOURS PROJECT  
PART 1**

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

### NATOURS PROJECT - SETUP AND FIRST STEPS (PART 1)

## LECTURE

### SECTION INTRO

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

### NATOURS PROJECT - SETUP AND FIRST STEPS (PART 1)

## LECTURE

### PROJECT OVERVIEW

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

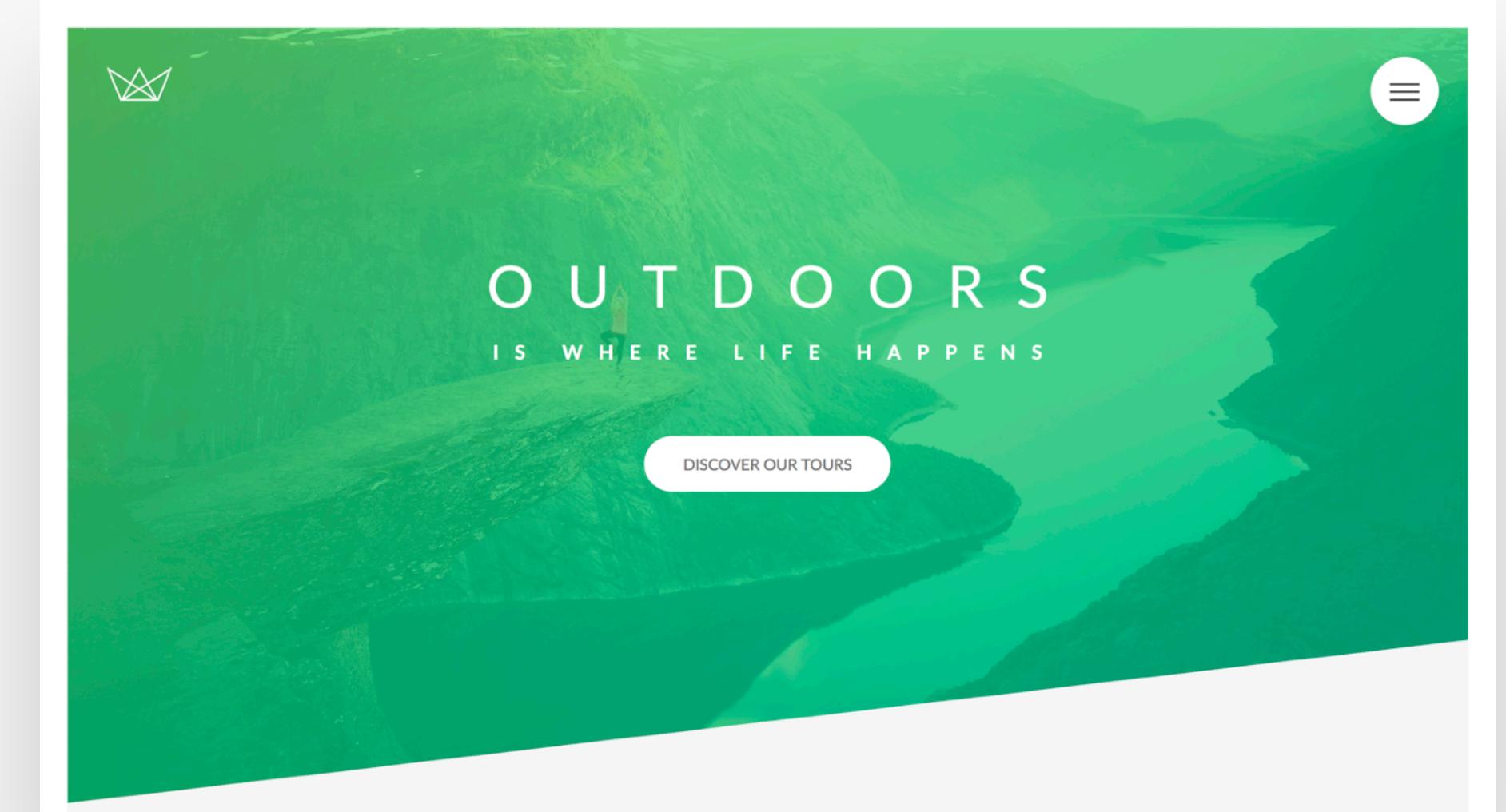
NATOURS PROJECT - SETUP AND FIRST STEPS (PART 1)

## LECTURE

BUILDING THE HEADER - PART 1

# WHAT YOU WILL LEARN IN THIS LECTURE

- The best way to perform a basic reset using the universal selector;
- How to set project-wide font definitions.
- How to clip parts of elements using clip-path.





# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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SECTION

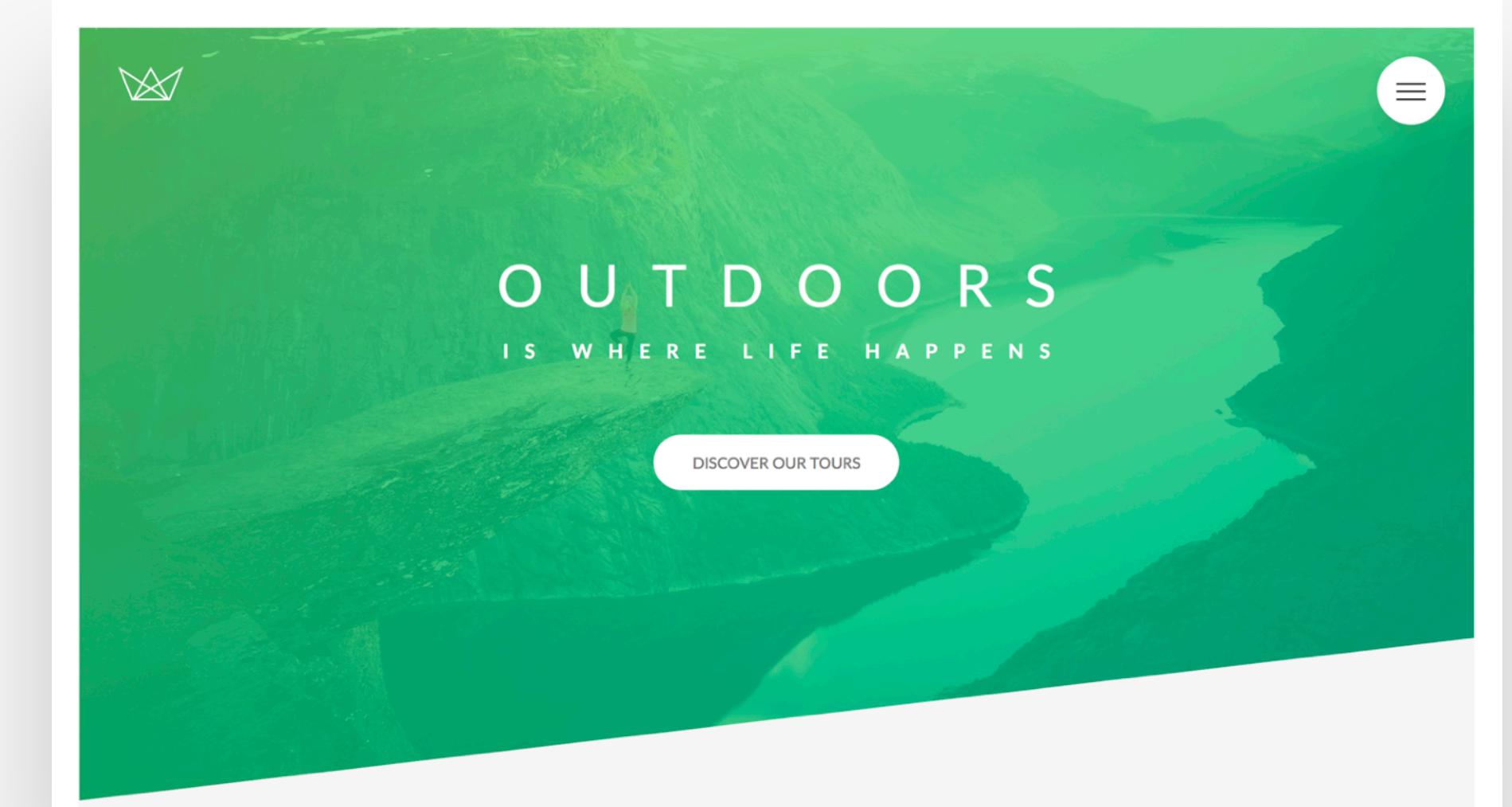
NATOURS PROJECT - SETUP AND FIRST STEPS (PART 1)

LECTURE

BUILDING THE HEADER - PART 2

# WHAT YOU WILL LEARN IN THIS LECTURE

- The easiest way to center anything with the transform, top and left properties.



# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

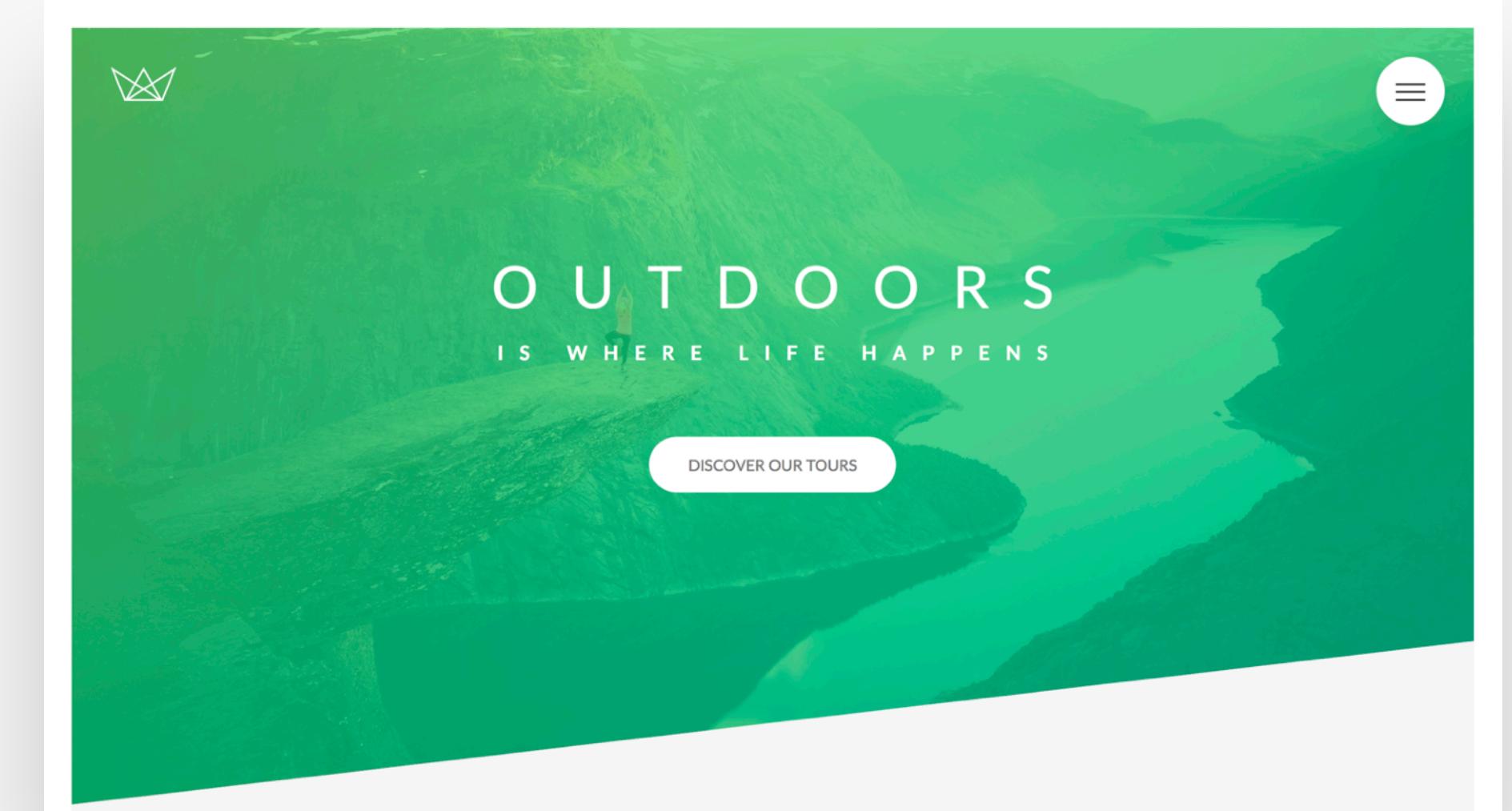
NATOURS PROJECT - SETUP AND FIRST STEPS (PART 1)

## LECTURE

CREATING COOL CSS ANIMATIONS

# WHAT YOU WILL LEARN IN THIS LECTURE

- How to create CSS animations using @keyframes and the animation property.



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TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

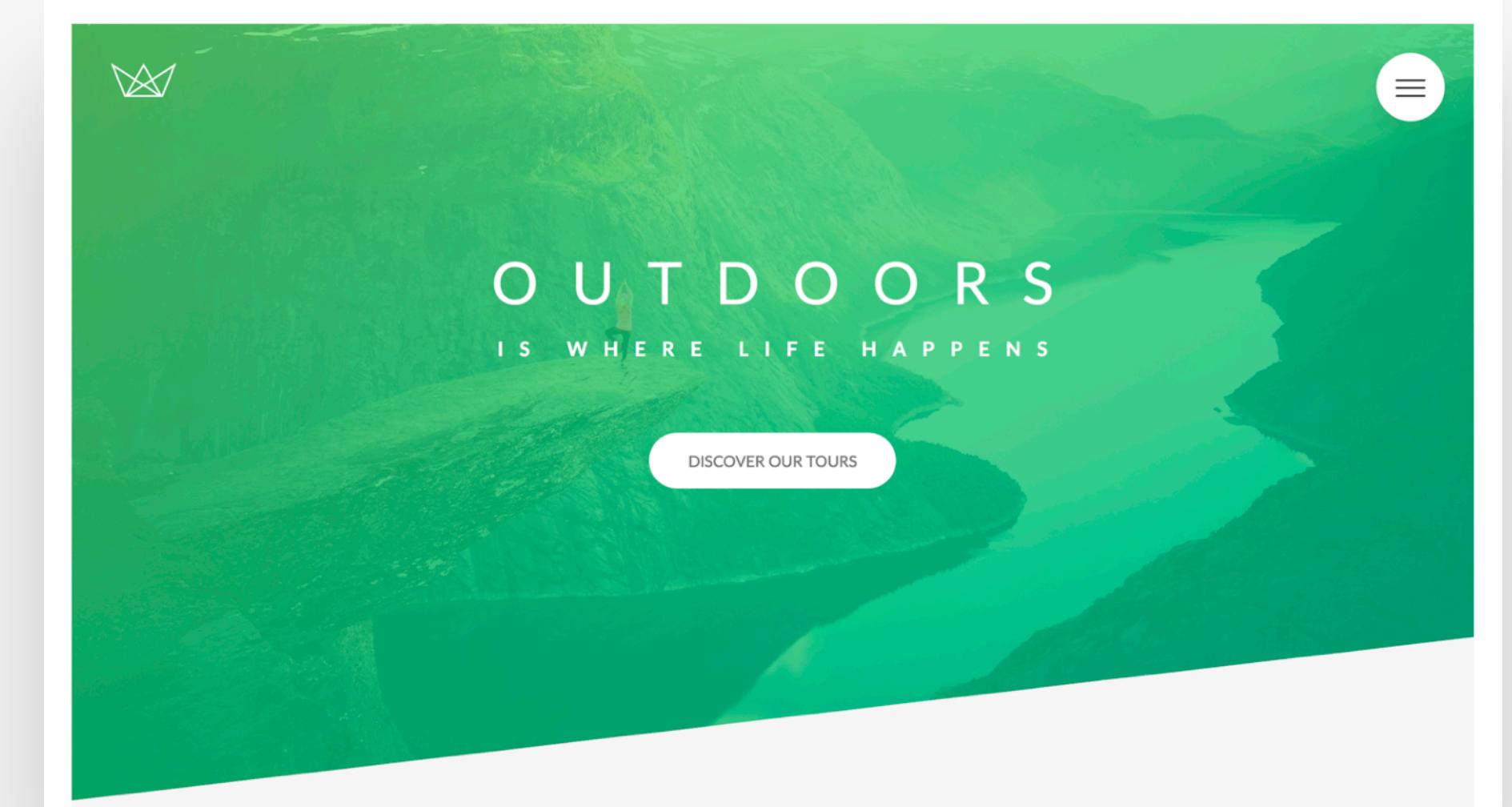
NATOURS PROJECT - SETUP AND FIRST STEPS (PART 1)

## LECTURE

BUILDING A COMPLEX ANIMATED BUTTON - PART 1

# WHAT YOU WILL LEARN IN THIS LECTURE

- What pseudo-elements and pseudo-classes are;
- How and why to use the :: after pseudo-element;
- How to create a creative hover animation effect using the transition property.



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TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

NATOURS PROJECT - SETUP AND FIRST STEPS (PART 1)

## LECTURE

BUILDING A COMPLEX ANIMATED BUTTON - PART 2

# SECTION 3 – HOW CSS WORKS

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

HOW CSS WORKS: A LOOK BEHIND THE SCENES

## LECTURE

SECTION INTRO

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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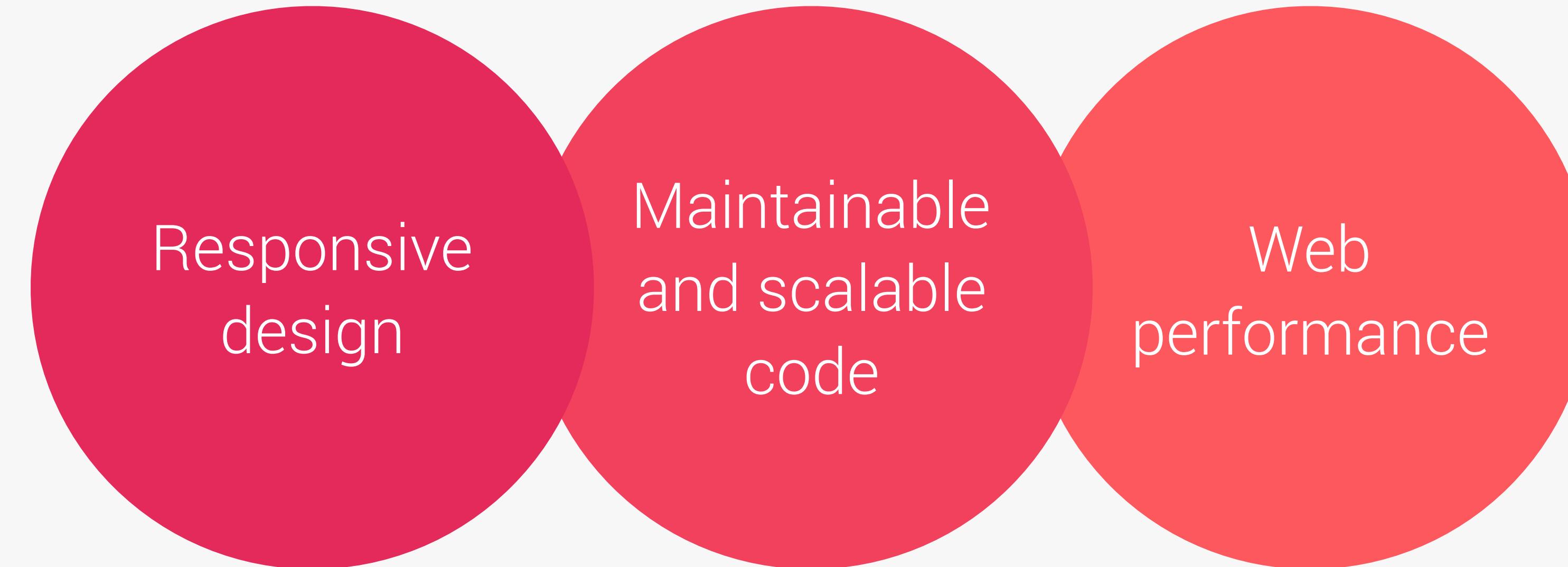
## SECTION

HOW CSS WORKS: A LOOK BEHIND THE SCENES

## LECTURE

THREE PILLARS OF WRITING GOOD HTML AND CSS (NEVER FORGET THEM!)

# THREE PILLARS TO WRITE GOOD HTML AND CSS... AND BUILD GOOD WEBSITES



- Fluid layouts
- Media queries
- Responsive images
- Correct units
- Desktop-first vs mobile-first

- Clean
- Easy-to-understand
- Growth
- Reusable
- How to organize files
- How to name classes
- How to structure HTML

- Less HTTP requests
- Less code
- Compress code
- Use a CSS preprocessor
- Less images
- Compress images

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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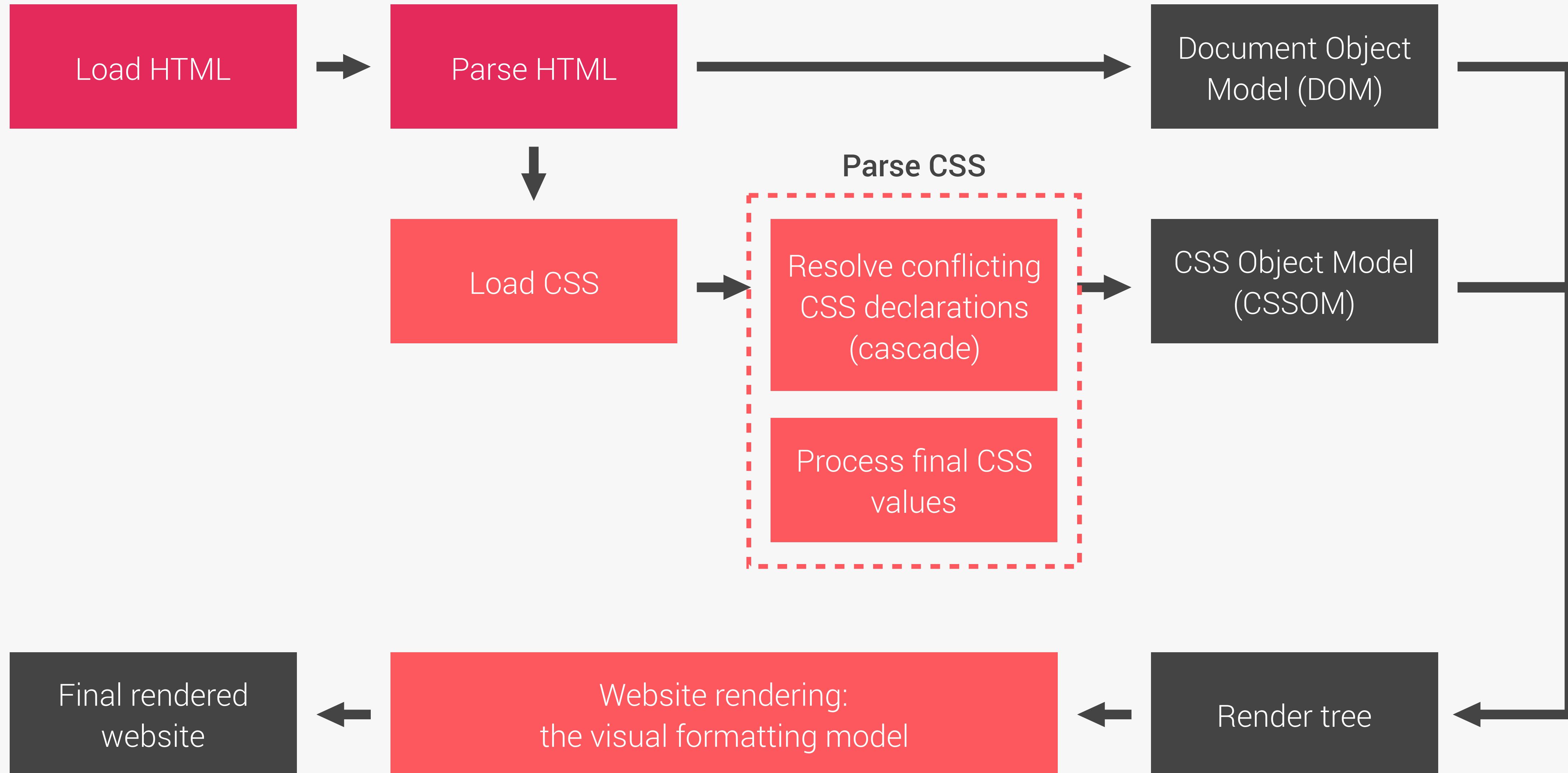
## SECTION

HOW CSS WORKS: A LOOK BEHIND THE SCENES

## LECTURE

HOW CSS WORKS BEHIND THE SCENES:  
AN OVERVIEW

# WHAT HAPPENS TO CSS WHEN WE LOAD UP A WEBPAGE?



# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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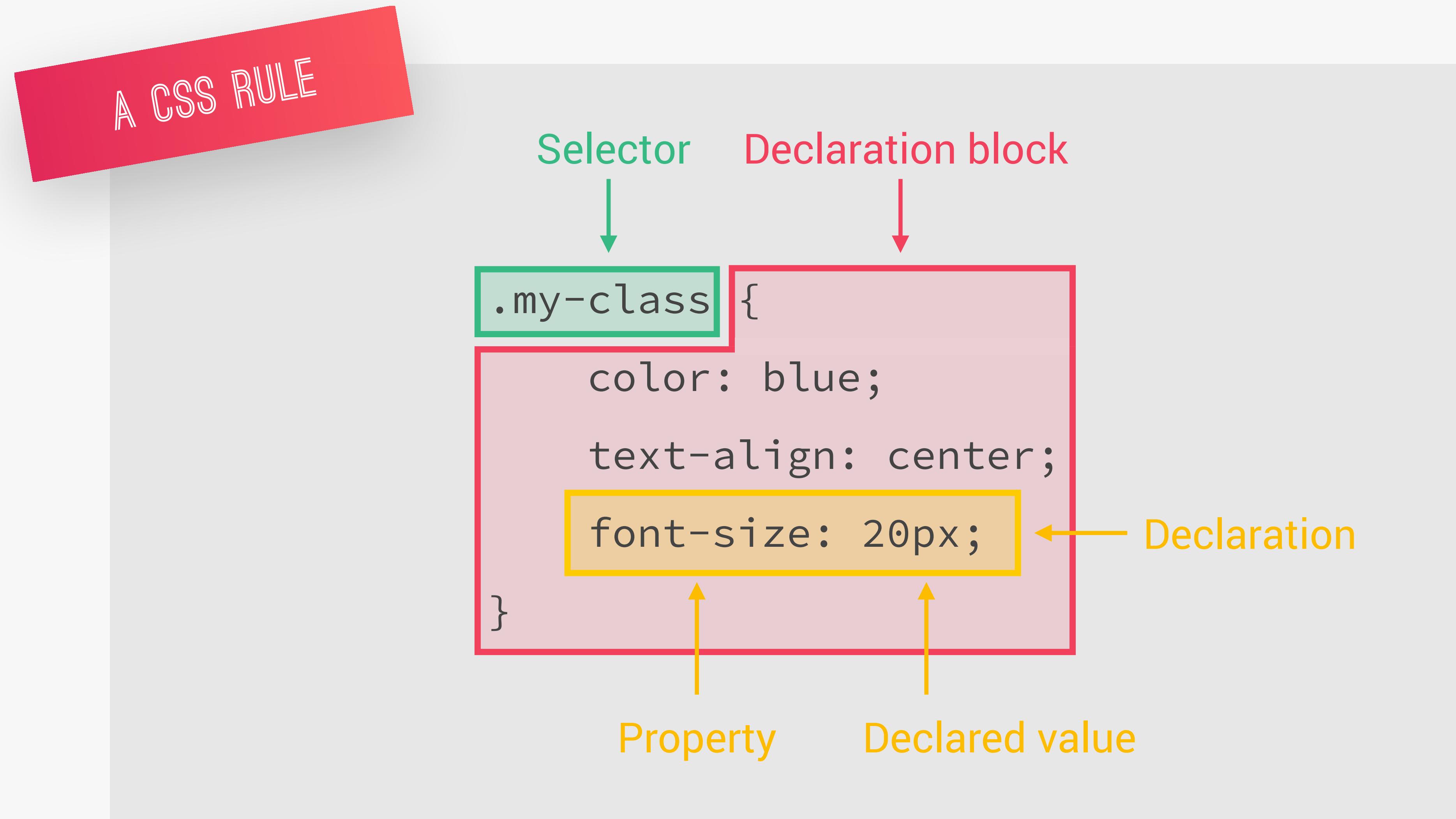
## SECTION

HOW CSS WORKS: A LOOK BEHIND THE SCENES

## LECTURE

HOW CSS IS PARSED, PART 1: THE CASCADE AND SPECIFICITY

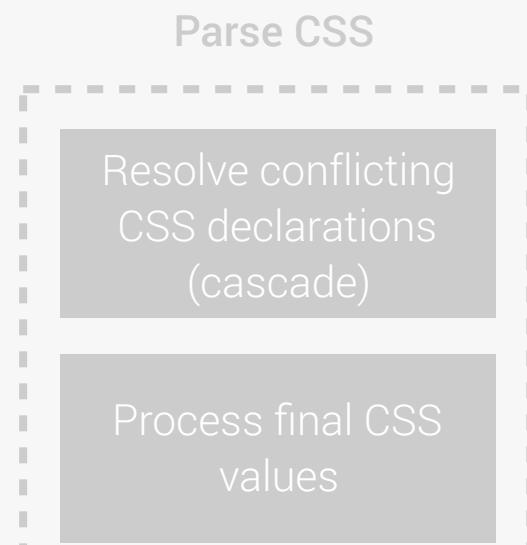
# QUICK REVIEW: CSS TERMINOLOGY



# THE CASCADE (THE "C" IN CSS)

## CASCADE

Process of combining different stylesheets and resolving conflicts between different CSS rules and declarations, when more than one rule applies to a certain element.



- Author
- User
- Browser (user agent)

IMPORTANCE (WEIGHT)

>

SPECIFICITY

>

SOURCE ORDER

## IMPORTANCE

>

## SPECIFICITY

>

## SOURCE ORDER

1. User !important declarations

2. Author !important declarations

3. Author declarations

4. User declarations

5. Default browser declarations

Same  
importance?  
→

```
.button {  
    font-size: 20px;  
    color: white;  
    background-color: blue !important;  
}  
  
#nav .pull-right .button {  
    background-color: green;  
}
```



Don't click here!

## IMPORTANCE

>

## SPECIFICITY

>

## SOURCE ORDER

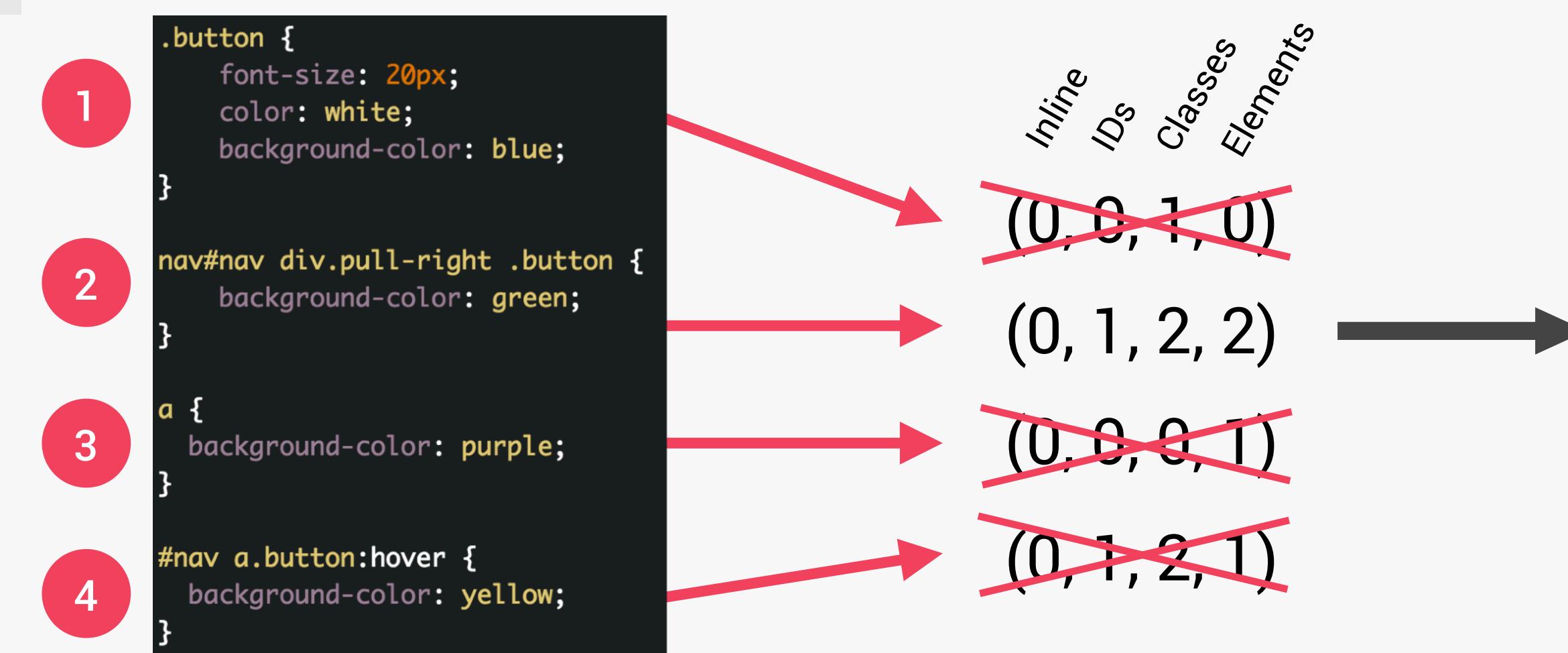
1. User !important declarations
2. Author !important declarations
3. Author declarations
4. User declarations
5. Default browser declarations

Same importance? →

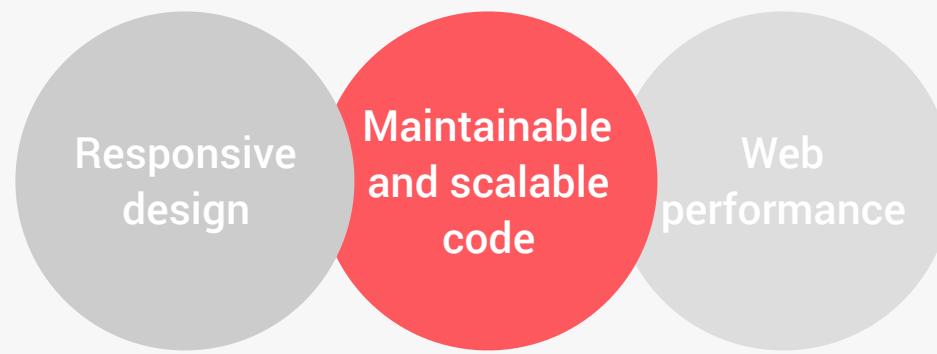
1. Inline styles
2. IDs
3. Classes, pseudo-classes, attribute
4. Elements, pseudo-elements

Same specificity? →

The last declaration in the code will override all other declarations and will be applied.



# CASCADE AND SPECIFICITY: WHAT YOU NEED TO KNOW



- CSS declarations marked with !important have the highest priority;
- But, only use !important as a last resource. It's better to use correct specificities – **more maintainable code!**
- Inline styles will always have priority over styles in external stylesheets;
- A selector that contains **1** ID is more specific than one with **1000** classes;
- A selector that contains **1** class is more specific than one with **1000** elements;
- The universal selector `*` has no specificity value (0, 0, 0, 0);
- Rely more on **specificity** than on the **order** of selectors;
- But, rely on order when using 3rd-party stylesheets – always put your author stylesheet last.

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TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

HOW CSS WORKS: A LOOK BEHIND THE SCENES

## LECTURE

SPECIFICITY IN PRACTICE

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

HOW CSS WORKS: A LOOK BEHIND THE SCENES

## LECTURE

HOW CSS IS PARSED, PART 2: VALUE PROCESSING

# HOW CSS VALUES ARE PROCESSED

1. Declared value  
(author declarations)

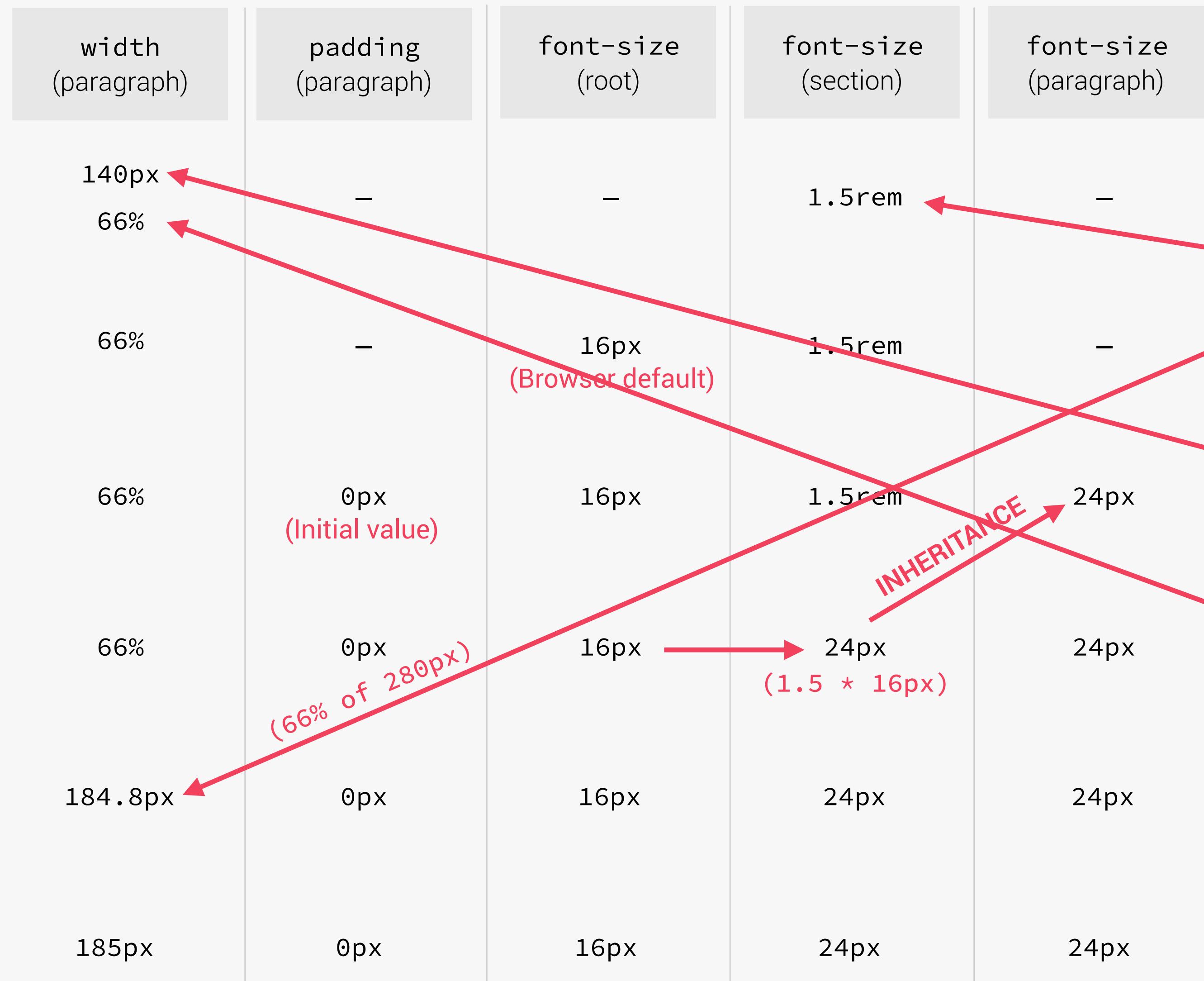
2. Cascaded value  
(after the cascade)

3. Specified value  
(defaulting, if there is no cascaded value)

4. Computed value  
(converting relative values to absolute)

5. Used value  
(final calculations, based on layout)

6. Actual value  
(browser and device restrictions)



```
<div class="section">
  <p class="amazing">CSS is absolutely amazing</p>
</div>
```

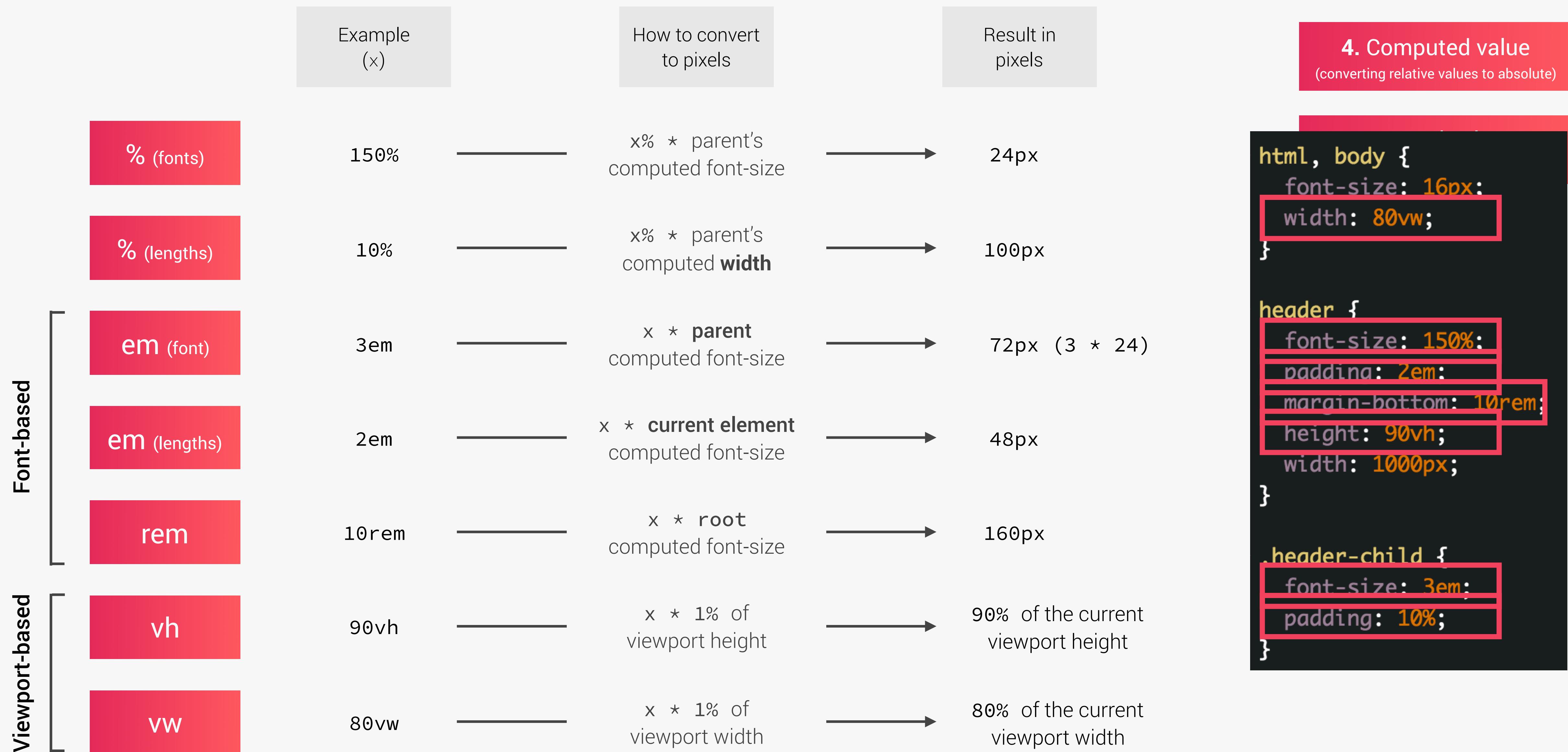
```
.section {
  font-size: 1.5rem;
  width: 280px;
  background-color: orangered;
}

p {
  width: 140px;
  background-color: green;
}

.amazing {
  width: 66%;
}
```

**CSS is absolutely amazing**  
(Let's analyse the green paragraph)

# HOW UNITS ARE CONVERTED FROM RELATIVE TO ABSOLUTE (PX)



# CSS VALUE PROCESSING: WHAT YOU NEED TO KNOW

- Each property has an initial value, used if nothing is declared (and if there is no inheritance – see next lecture);
- Browsers specify a **root font-size** for each page (usually 16px);
- Percentages and relative values are always converted to pixels;
- Percentages are measured relative to their parent's **font-size**, if used to specify font-size;
- Percentages are measured relative to their parent's **width**, if used to specify lengths;
- em are measured relative to their **parent** font-size, if used to specify font-size;
- em are measured relative to the **current** font-size, if used to specify lengths;
- rem are always measured relative to the **document's root** font-size;
- vh and vw are simply percentage measurements of the viewport's height and width.

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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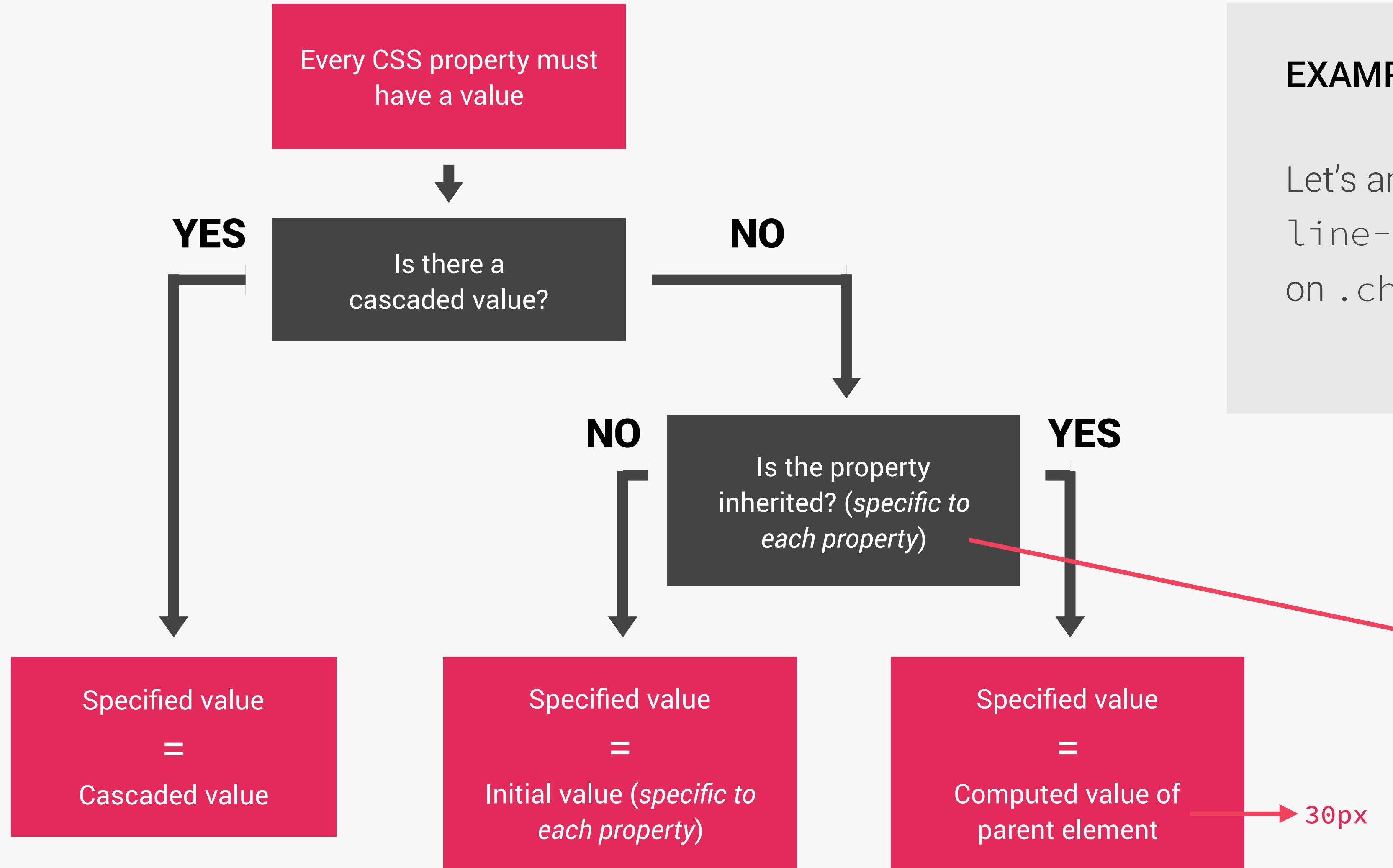
## SECTION

HOW CSS WORKS: A LOOK BEHIND THE SCENES

## LECTURE

HOW CSS IS PARSED, PART 3:  
INHERITANCE

# INHERITANCE IN CSS



## EXAMPLE

Let's analyse line-height on .child

```
.parent {  
  font-size: 20px;  
  line-height: 150%;  
}  
  
.child {  
  font-size: 25px;  
}
```

## line-height property specification

|                 |  |
|-----------------|--|
| Initial value   | normal   |
| Applies to      | all elements. It also applies to <code>::first-letter</code> and <code>::first-line</code> . |
| Inherited       | yes  |
| Percentages     | refer to the font size of the element itself   |
| Media           | visual   |
| Computed value  | for percentage and length values, the absolute length, otherwise as specified                |
| Animation type  | either number or length  |
| Canonical order | the unique non-ambiguous order defined by the formal grammar                                 |

THIS IS INHERITANCE!

Source: <https://developer.mozilla.org/en/docs/Web/CSS/line-height>

# INHERITANCE: WHAT YOU NEED TO KNOW

- Inheritance passes the values for some specific properties from parents to children – **more maintainable code**;
- Properties related to text are inherited: font-family, font-size, color, etc;
- The computed value of a property is what gets inherited, **not** the declared value.
- Inheritance of a property only works if no one declares a value for that property;
- The `inherit` keyword forces inheritance on a certain property;
- The `initial` keyword resets a property to its initial value.

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TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

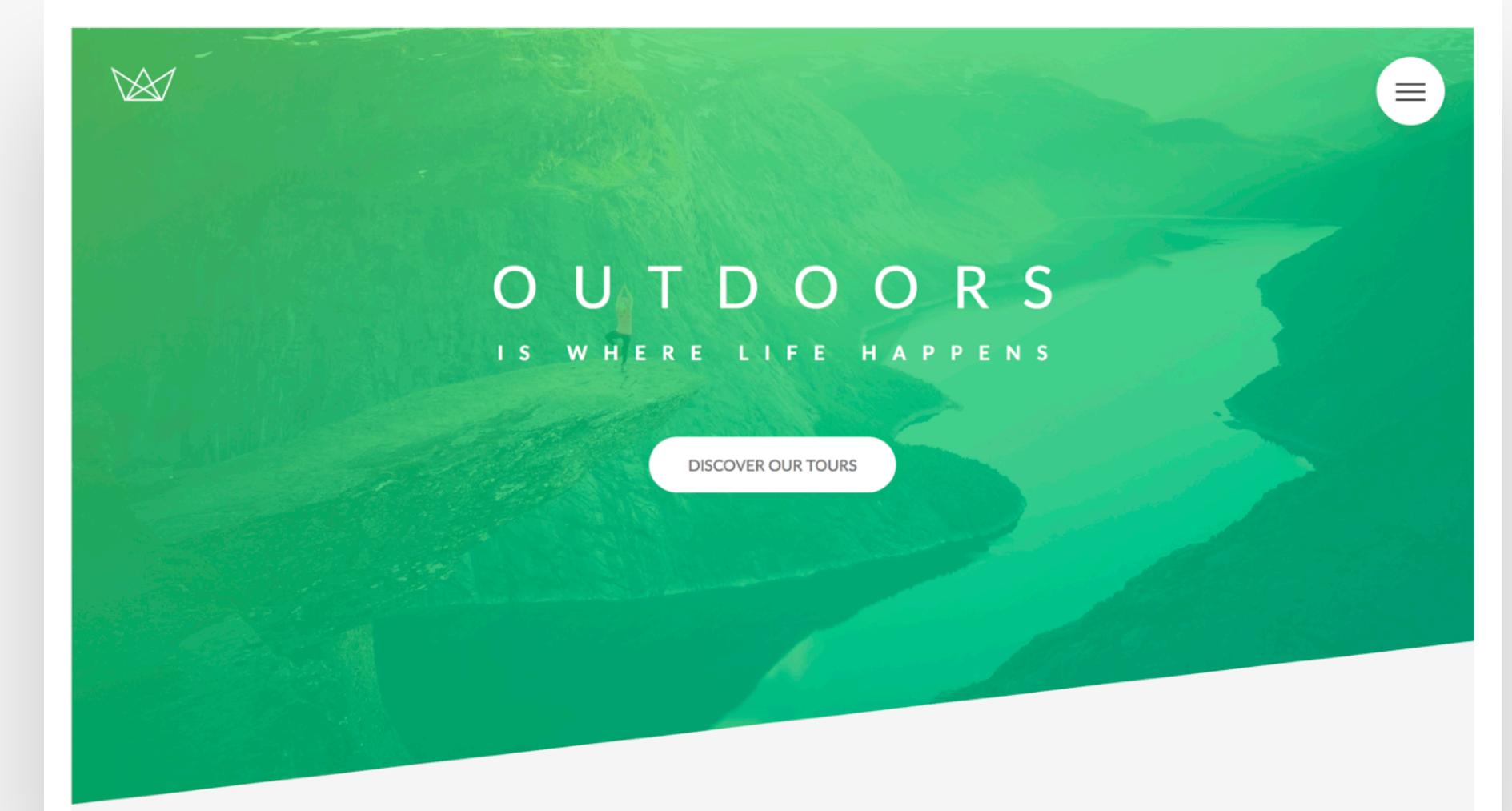
HOW CSS WORKS: A LOOK BEHIND THE SCENES

## LECTURE

CONVERTING PX TO REM: AN EFFECTIVE WORKFLOW

# WHAT YOU WILL LEARN IN THIS LECTURE

- How and why to use rem units in our project;
- A great workflow for converting px to rem.



# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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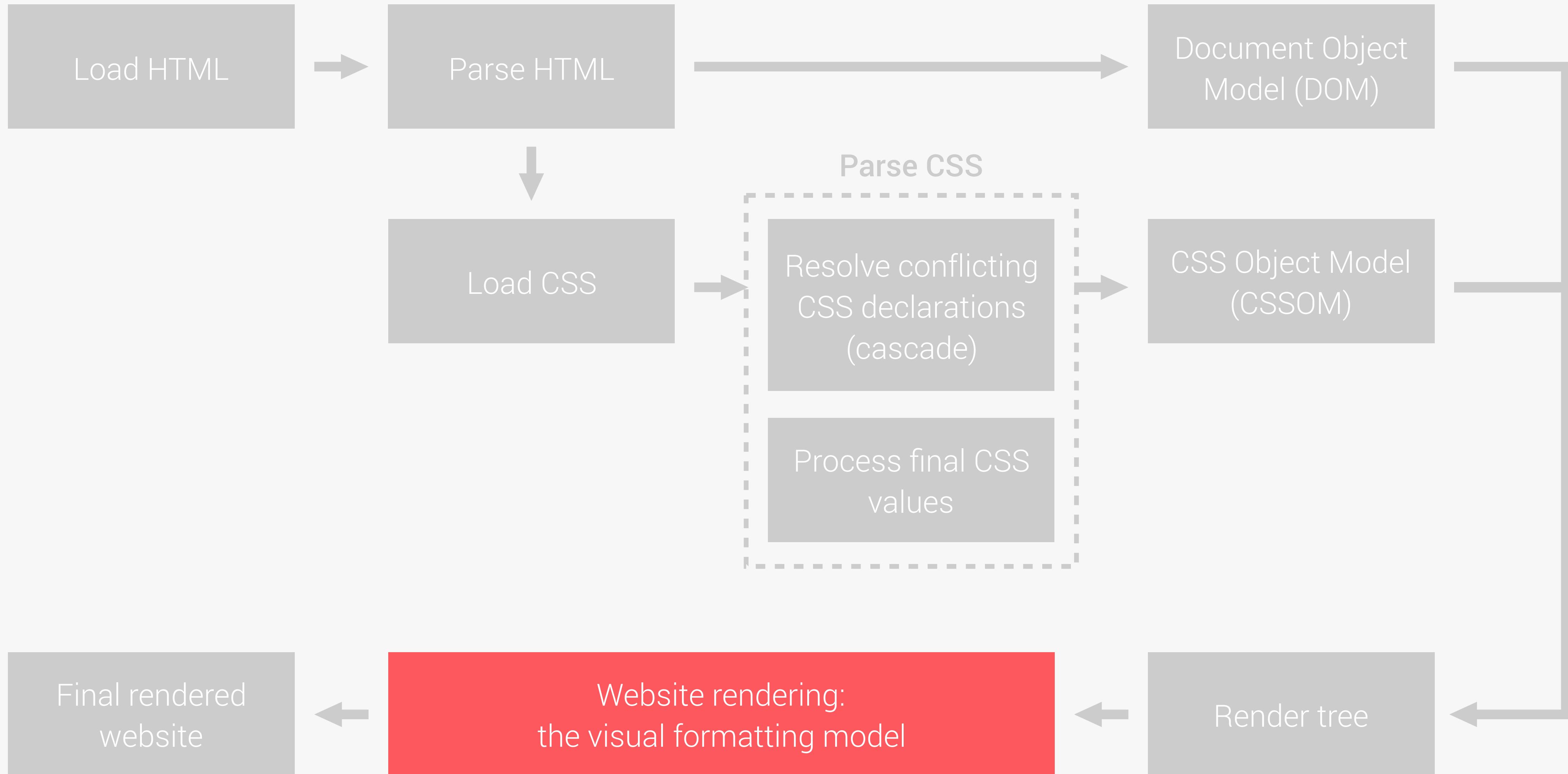
## SECTION

HOW CSS WORKS: A LOOK BEHIND THE SCENES

## LECTURE

HOW CSS RENDERS A WEBSITE: THE VISUAL FORMATTING MODEL

# REMEMBER...?

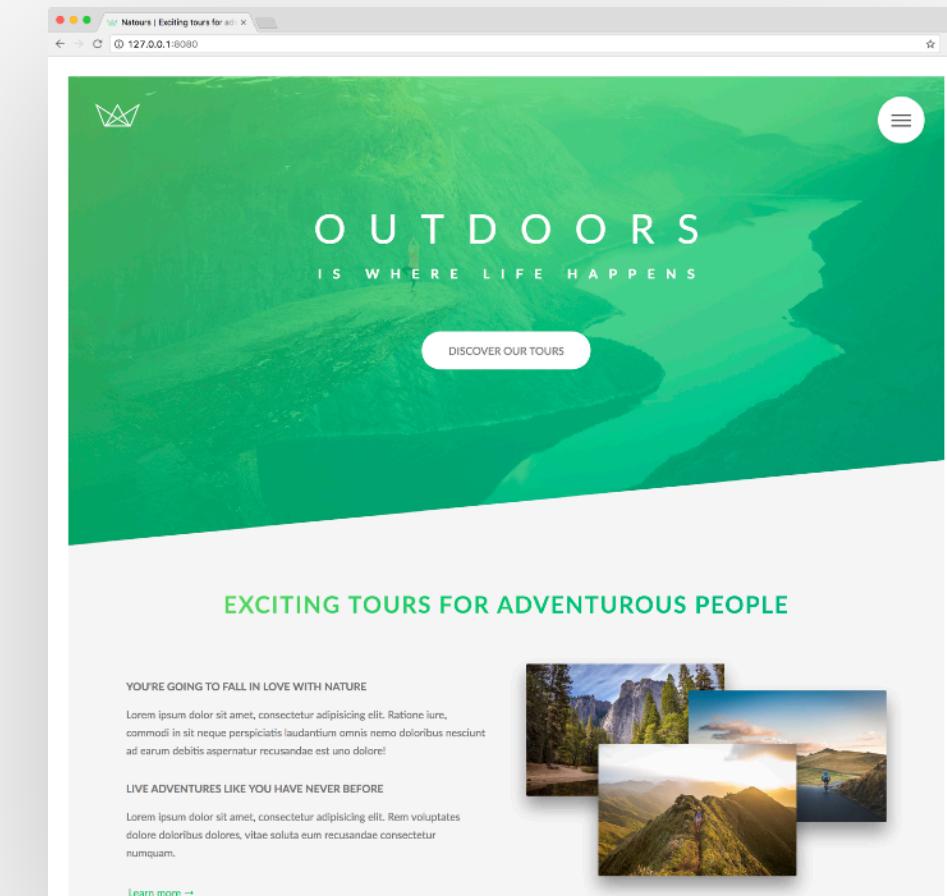
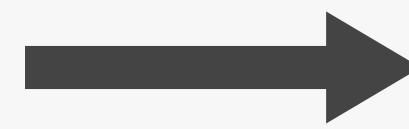


# THE VISUAL FORMATTING MODEL

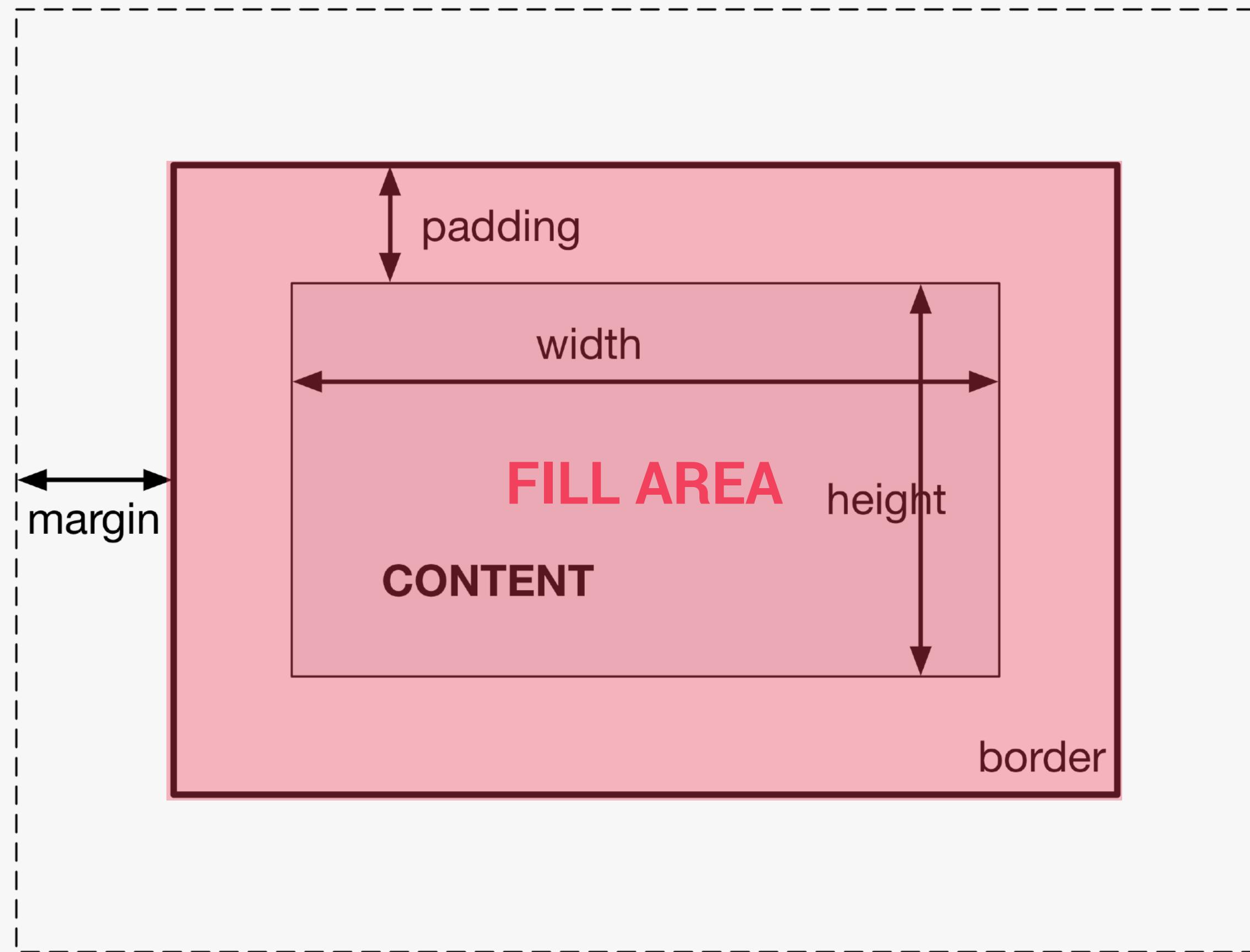
## DEFINITION

Algorithm that calculates boxes and determines the layout of these boxes, for each element in the render tree, in order to determine the final layout of the page.

- **Dimensions of boxes:** the box model;
- **Box type:** inline, block and inline-block;
- **Positioning scheme:** floats and positioning;
- **Stacking contexts;**
- Other elements in the render tree;
- Viewport size, dimensions of images, etc.



# 1. THE BOX MODEL



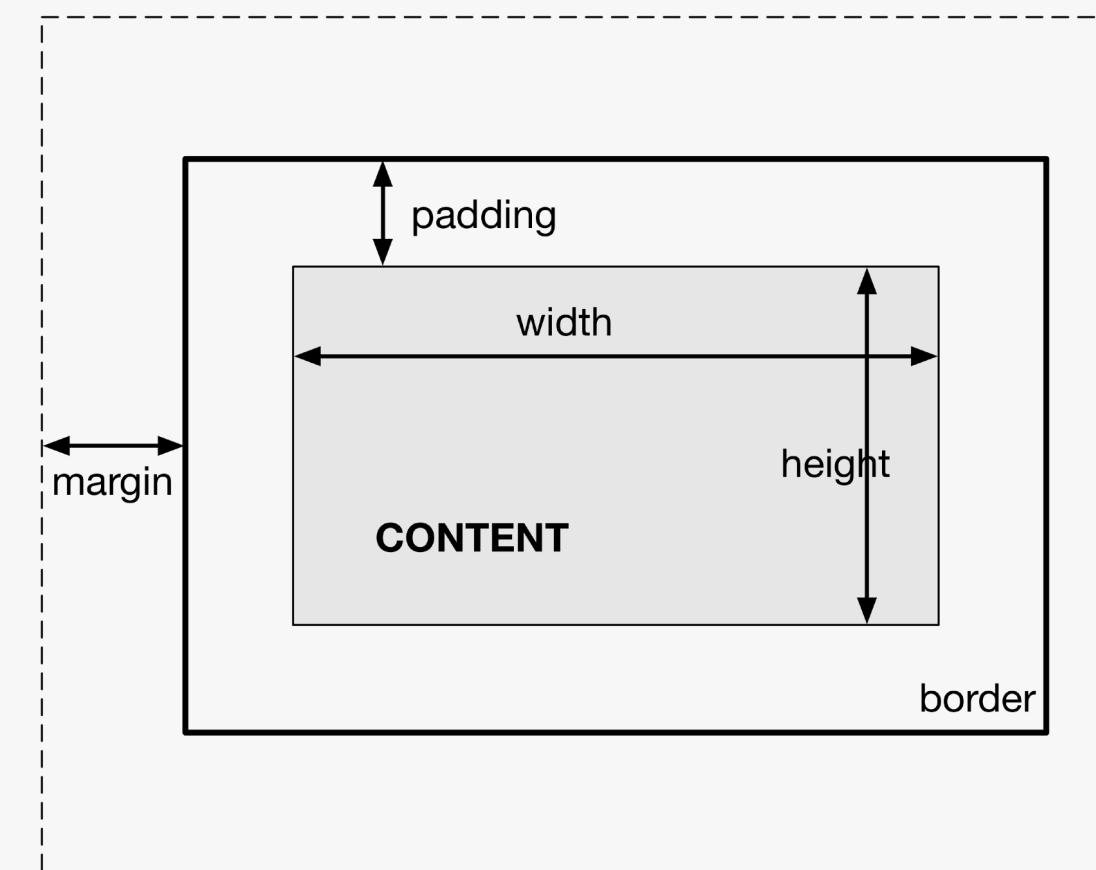
- **Content:** text, images, etc;
- **Padding:** transparent area around the content, inside of the box;
- **Border:** goes around the padding and the content;
- **Margin:** space between boxes;
- **Fill area:** area that gets filled with background color or background image.

# 1. THE BOX MODEL: HEIGHTS AND WIDTHS

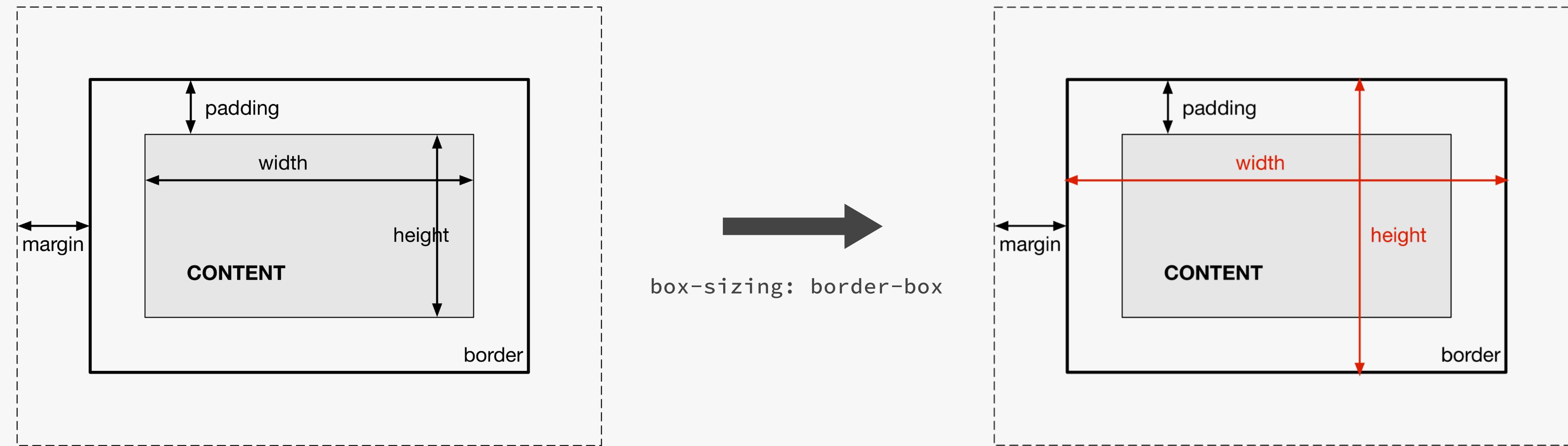
**total width** = right border + right padding + specified width + left padding + left border

**total height** = top border + top padding + specified height + bottom padding + bottom border

**Example:** height = 0 + 20px + 100px + 20px + 0 = 140px



# 1. THE BOX MODEL WITH BOX-SIZING: BORDER-BOX



~~total width = right border + right padding + specified width + left padding + left border~~

~~total height = top border + top padding + specified height + bottom padding + bottom border~~

**Example:** ~~height = 0 + 20px + 100px + 20px + 0 = 100px~~

## 2. BOX TYPES: INLINE, BLOCK-LEVEL AND INLINE-BLOCK

Block-level  
boxes

- Elements formatted visually as blocks
- 100% of parent's width
- Vertically, one after another
- Box-model applies as showed

Inline-block  
boxes

- A mix of block and inline
- Occupies only content's space
- No line-breaks
- Box-model applies as showed

Inline  
boxes

- Content is distributed in lines
- Occupies only content's space
- No line-breaks
- No heights and widths
- Paddings and margins only horizontal (left and right)



```
display: block  
(display: flex)  
(display: list-item)  
(display: table)
```

```
display: inline-block
```

```
display: inline
```

### 3. POSITIONING SCHEMES: NORMAL FLOW, ABSOLUTE POSITIONING AND FLOATS

Normal flow

- Default positioning scheme;
- **NOT** floated;
- **NOT** absolutely positioned;
- Elements laid out according to their source order.

**Default**  
`position: relative`

FLOATS

- **Element is removed from the normal flow;**
- Text and inline elements will wrap around the floated element;
- The container will not adjust its height to the element.

`float: left`  
`float: right`

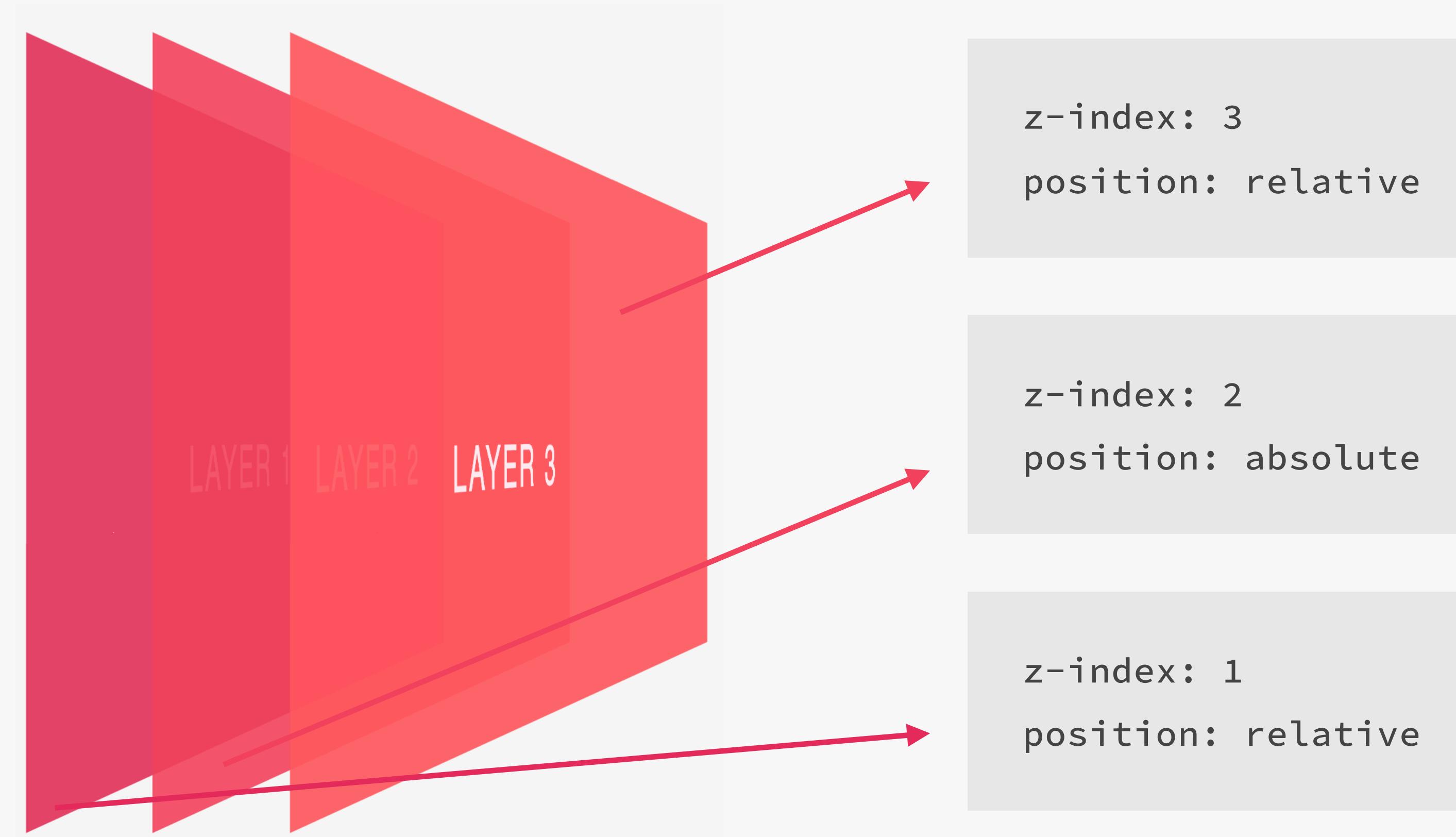


Absolute  
positioning

- **Element is removed from the normal flow**
- No impact on surrounding content or elements;
- We use top, bottom, left and right to offset the element from its relatively positioned container.

`position: absolute`  
`position: fixed`

## 4. STACKING CONTEXTS



# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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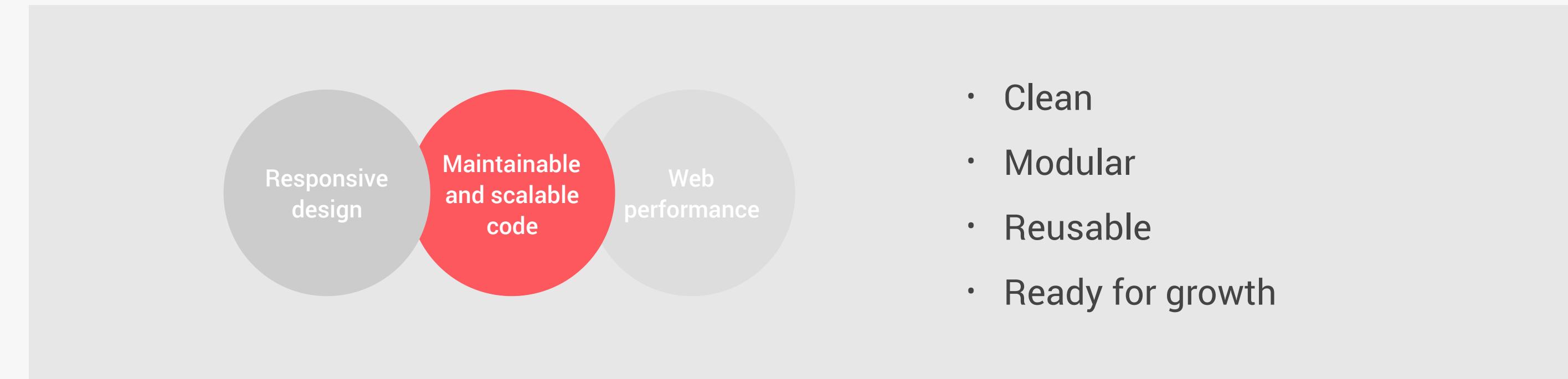
SECTION

HOW CSS WORKS: A LOOK BEHIND THE SCENES

LECTURE

CSS ARCHITECTURE, COMPONENTS AND BEM

# THE THINK - BUILD - ARCHITECT MINDSET



**Think** about the layout of your webpage or web app before writing code.

**Build** your layout in HTML and CSS with a consistent structure for naming classes.

Create a logical **architecture** for your CSS with files and folders.

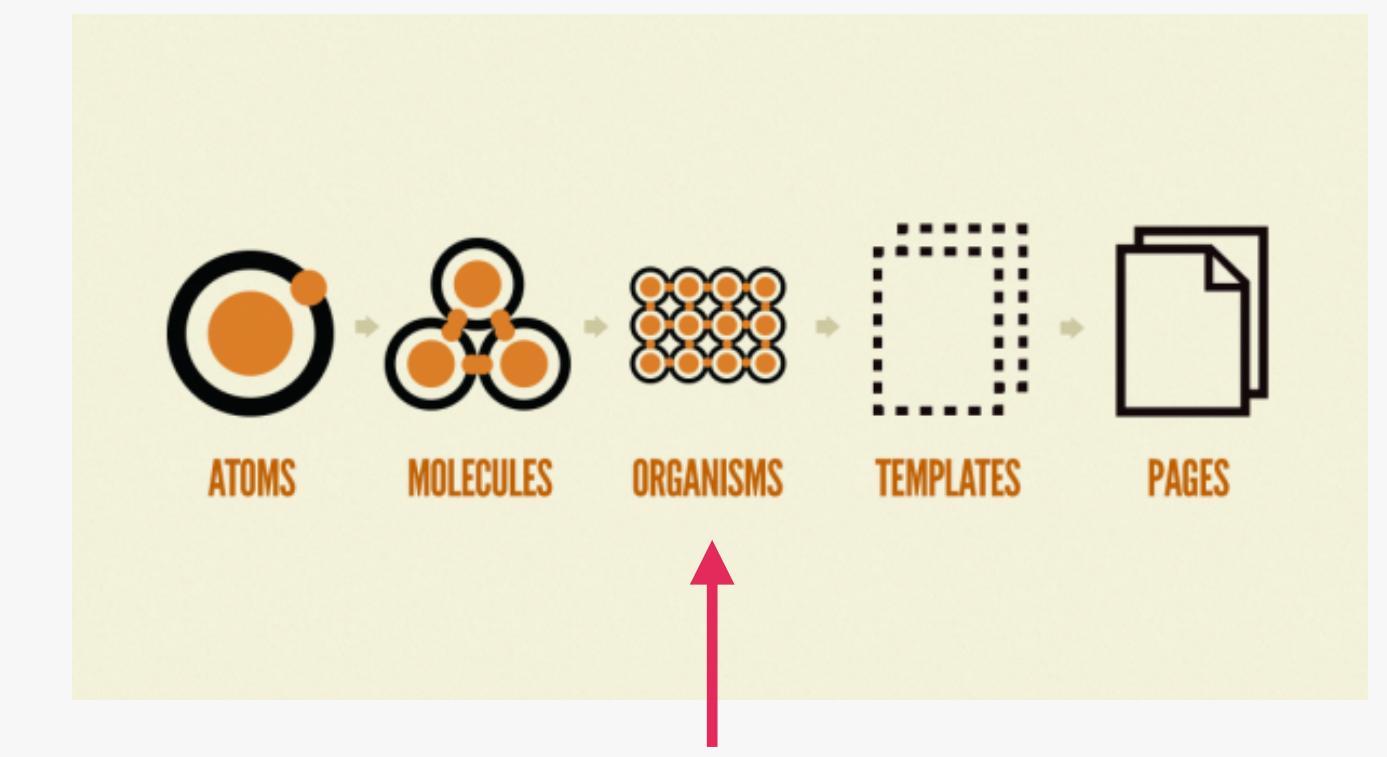
# THINKING ABOUT THE LAYOUT



## COMPONENT-DRIVEN DESIGN

- **Modular building blocks** that make up interfaces;
- Held together by the **layout** of the page;
- **Re-usable** across a project, and between different projects;
- **Independent**, allowing us to use them anywhere on the page.

## ATOMIC DESIGN



# BUILDING WITH MEANINGFUL CLASS NAMES

THINK

BUILD

ARCHITECT

BEM

- **Block Element Modifier**
- **BLOCK**: standalone component that is meaningful on its own.
- **ELEMENT**: part of a block that has no standalone meaning.
- **MODIFIER**: a different version of a block or an element.

```
.block {}  
.block__element {}  
.block__element--modifier {}
```

Low-specificity BEM selectors

```
<figure class='recipe'>  
  <div class="recipe__hero">  
    </div>  
  <div class="recipe__info">  
    <div class="recipe__category">Veggie</div>  
    <figcaption class="recipe__details">  
      <h2 class="recipe__title">Pizza Vegetale 🌶</h2>  
      <p class="recipe__description">Yummy veggie pizza with tasty olives</p>  
    </figcaption>  
    <div class="recipe__stats-box">  
      <div class="recipe__stat">  
        <span class="recipe__stat-value">4.9</span>  
        <span class="recipe__stat-name recipe__stat-name--1">Stars</span>  
      </div>  
      <div class="recipe__stat">  
        <span class="recipe__stat-value">45</span>  
        <span class="recipe__stat-name recipe__stat-name--2">Minutes</span>  
      </div>  
      <div class="recipe__stat">  
        <span class="recipe__stat-value">2</span>  
        <span class="recipe__stat-name recipe__stat-name--3">Persons</span>  
      </div>  
    </div>  
    <a class="recipe__btn btn--round" href="#">Try</a>  
</div>
```



VEGGIE  
**Pizza Vegetale 🌶**  
Yummy veggie pizza with tasty olives, crisp peppers, fresh arugula and original italian tomato sauce.  
4.9 STARS 45 MINUTES 2 PERSONS TRY

# ARCHITECTING WITH FILES AND FOLDERS



## THE 7-1 PATTERN

7 different folders for partial Sass files, and  
1 main Sass file to import all other files into  
a compiled CSS stylesheet.

## THE 7 FOLDERS

- base/
- components/
- layout/
- pages/
- themes/
- abstracts/
- vendors/

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

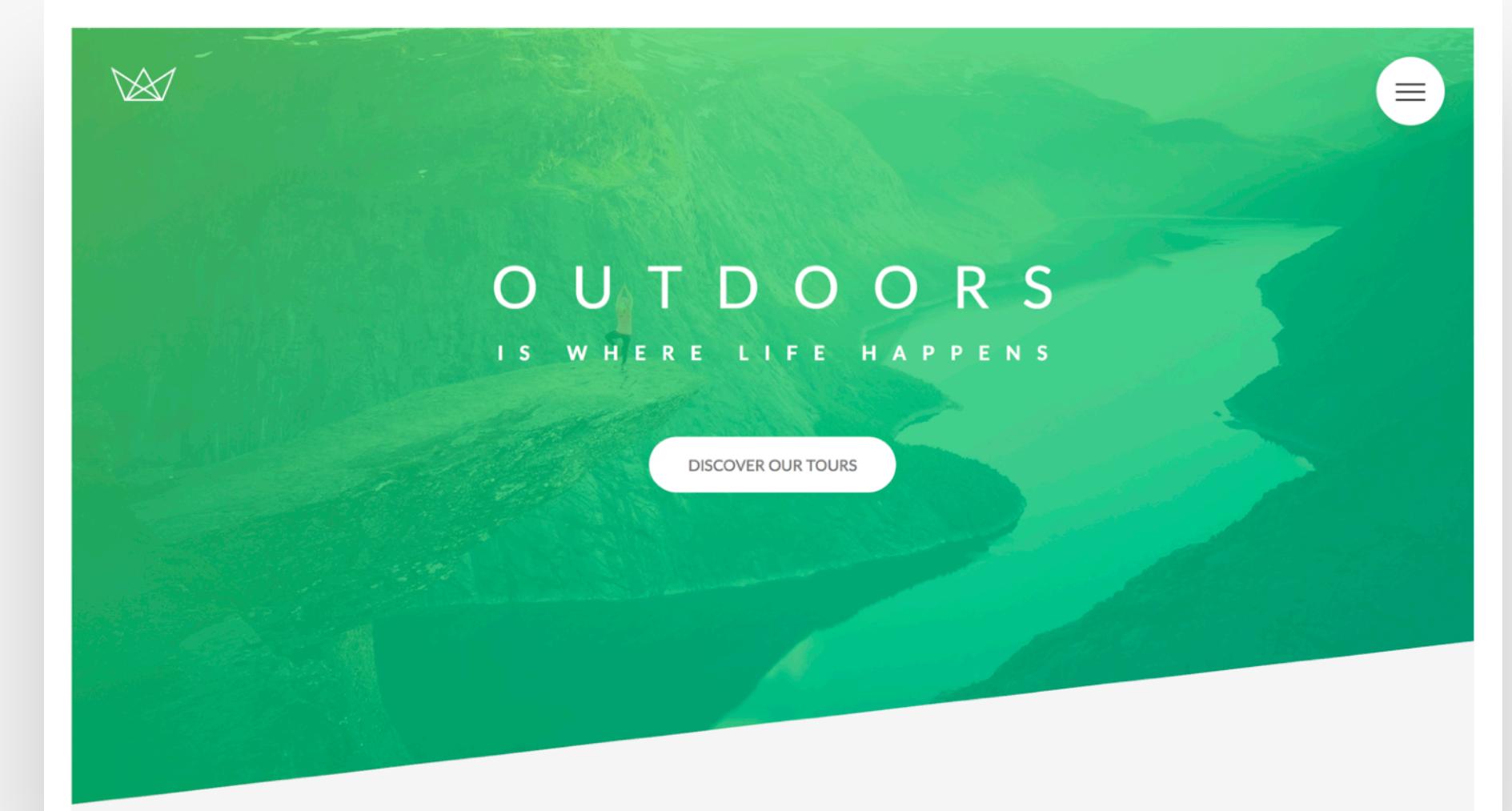
HOW CSS WORKS: A LOOK BEHIND THE SCENES

## LECTURE

IMPLEMENTING BEM IN THE NATOUR PROJECT

# WHAT YOU WILL LEARN IN THIS LECTURE

- How to use the BEM method in practice.



# SECTION 4 – INTRODUCTION TO SASS AND NPM

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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SECTION

INTRODUCTION TO SASS AND NPM

LECTURE

SECTION INTRO

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

### INTRODUCTION TO SASS AND NPM

## LECTURE

### WHAT IS SASS?

Library | Develop | Map | Book | Slideshow | Print | Web

Histogram

Color

Curves

Contrast

Gamma

# WHAT IS SASS AND HOW DOES IT WORK?

SASS

Sass is a CSS preprocessor, an extension of CSS that adds power and elegance to the basic language.



SASS SOURCE CODE

Sass compiler



COMPILED CSS CODE

# MAIN SASS FEATURES



- **Variables**: for reusable values such as colors, font-sizes, spacing, etc;
- **Nesting**: to nest selectors inside of one another, allowing us to write less code;
- **Operators**: for mathematical operations right inside of CSS;
- **Partials and imports**: to write CSS in different files and importing them all into one single file;
- **Mixins**: to write reusable pieces of CSS code;
- **Functions**: similar to mixins, with the difference that they produce a value that can than be used;
- **Extends**: to make different selectors inherit declarations that are common to all of them;
- **Control directives**: for writing complex code using conditionals and loops (not covered in this course).

# SASS AND SCSS: CLEARING UP THE CONFUSION

*Sass*



Sass syntax

```
.navigation
  list-style: none
  float: left

  & li
    display: inline-block
    margin-left: 30px
```

SCSS syntax

```
.navigation {
  list-style: none;
  float: left;

  & li {
    display: inline-block;
    margin-left: 30px;
  }
}
```

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

### INTRODUCTION TO SASS AND NPM

## LECTURE

### FIRST STEPS WITH SASS: VARIABLES AND NESTING

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

### INTRODUCTION TO SASS AND NPM

## LECTURE

### FIRST STEPS WITH SASS: MIXINS, EXTENDS AND FUNCTIONS



# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

### INTRODUCTION TO SASS AND NPM

## LECTURE

### A BRIEF INTRODUCTION TO THE COMMAND LINE

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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SECTION

INTRODUCTION TO SASS AND NPM

LECTURE

NPM PACKAGES: LET'S INSTALL SASS  
LOCALLY

# A BRIEF INTRODUCTION TO NPM AND THE NODE ECOSYSTEM



Allows developers to write and run JavaScript applications on the server. Developers started using node.js to also write tools to help them with **local web development**.



NPM is a simple command line interface that allows developers to **install and manage packages** on their local computers. There are all kinds of open-source **tools, libraries and frameworks** needed for modern development. Modern web development could simply not exist without a package manager.

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

### INTRODUCTION TO SASS AND NPM

## LECTURE

### NPM SCRIPTS: LET'S WRITE AND COMPILE SASS LOCALLY

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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SECTION

INTRODUCTION TO SASS AND NPM

LECTURE

THE EASIEST WAY OF AUTOMATICALLY  
RELOADING A PAGE ON FILE CHANGES

**SECTION 5 –  
NATOURS PROJECT  
PART 2**

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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SECTION

NATOURS PROJECT - USING ADVANCED  
CSS AND SASS (PART 2)

LECTURE

SECTION INTRO

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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SECTION

NATOURS PROJECT - USING ADVANCED  
CSS AND SASS (PART 2)

LECTURE

CONVERTING OUR CSS CODE TO SASS:  
VARIABLES AND NESTING

# ADVANCED CSS AND SASS

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## SECTION

NATOURS PROJECT - USING ADVANCED  
CSS AND SASS (PART 2)

## LECTURE

IMPLEMENTING THE 7-1 CSS  
ARCHITECTURE WITH SASS

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## SECTION

NATOURS PROJECT - USING ADVANCED  
CSS AND SASS (PART 2)

## LECTURE

REVIEW: BASIC PRINCIPLES OF  
RESPONSIVE DESIGN AND LAYOUT TYPES

# REVIEW: BASIC RESPONSIVE DESIGN PRINCIPLES

1

## FLUID GRIDS AND LAYOUTS

To allow content to easily adapt to the current viewport width used to browse the website. Uses % rather than px for all layout-related lengths.

2

## FLEXIBLE/RESPONSIVE IMAGES

Images behave differently than text content, and so we need to ensure that they also adapt nicely to the current viewport.

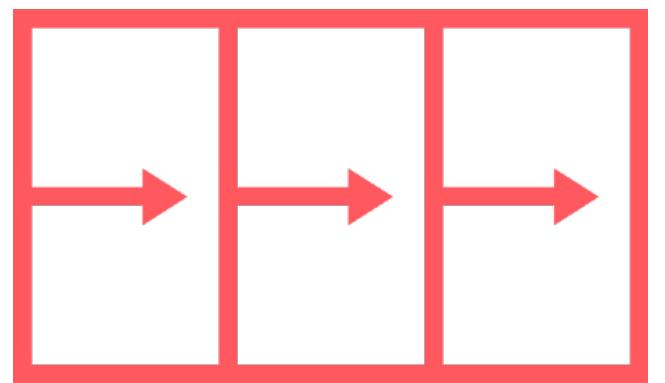
3

## MEDIA QUERIES

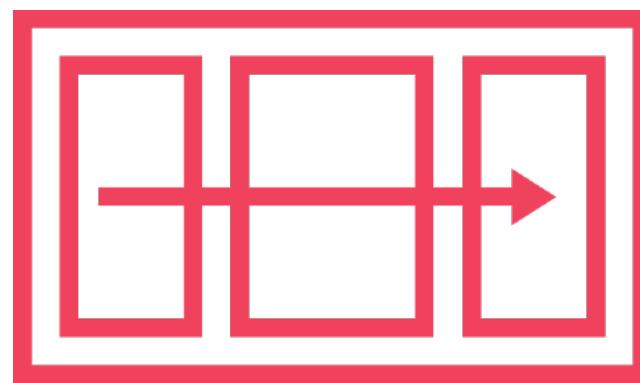
To change styles on certain viewport widths (breakpoints), allowing us to create different version of our website for different widths.

# LAYOUT TYPES

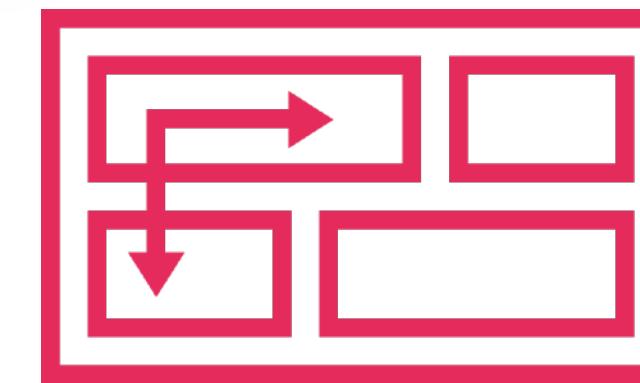
THIS PROJECT



2ND PROJECT



3RD PROJECT



FLOAT LAYOUTS

FLEXBOX

CSS GRID

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SECTION

NATOURS PROJECT - USING ADVANCED  
CSS AND SASS (PART 2)

LECTURE

BUILDING A CUSTOM GRID WITH FLOATS

# WHAT YOU WILL LEARN IN THIS LECTURE

- How to architect and build a simple grid system;
- How the attribute selector works;
- How the :not pseudo-class works;
- How calc() works, and what's the difference between calc() and simple Sass operations.



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TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

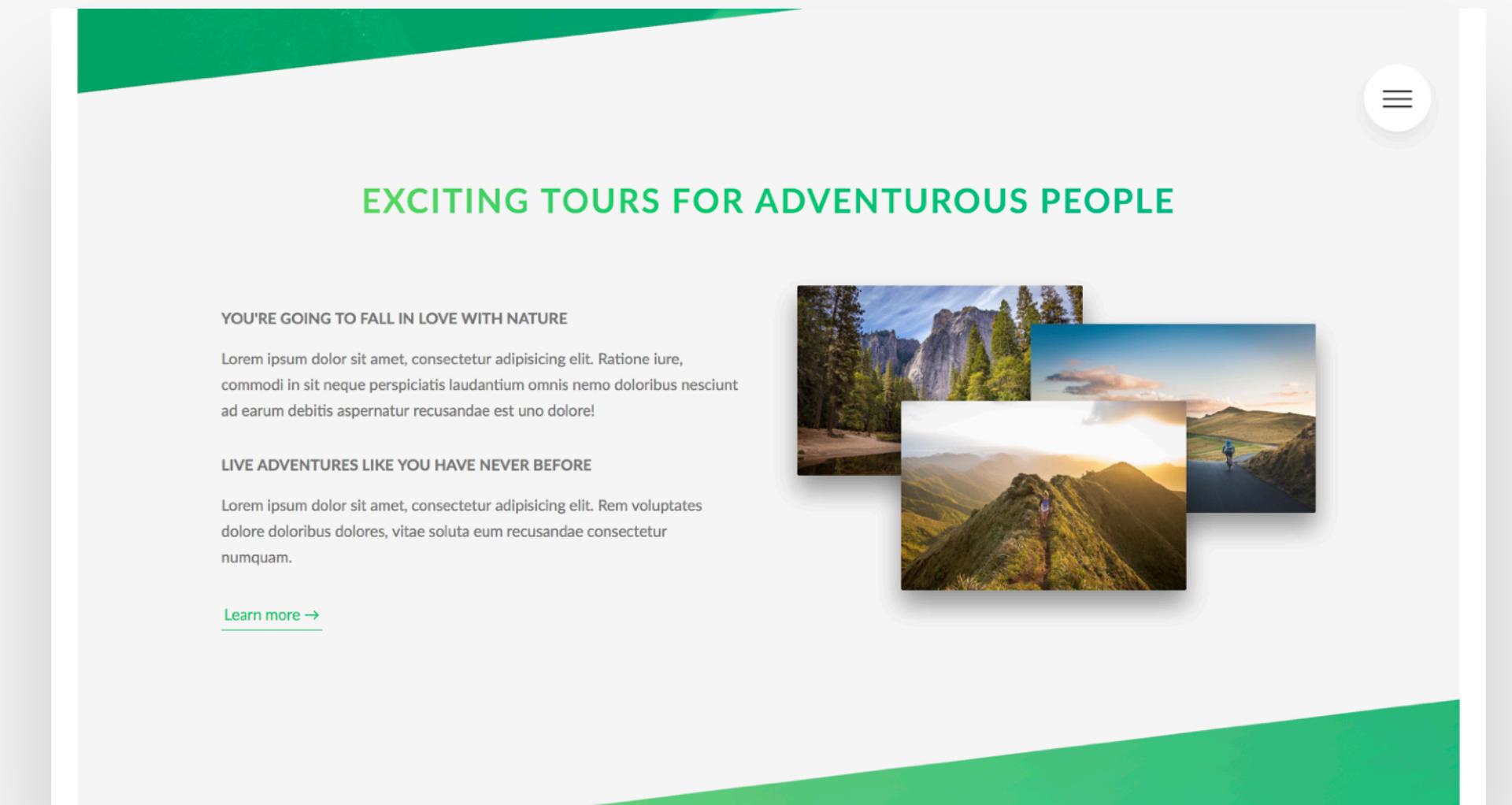
NATOURS PROJECT - USING ADVANCED  
CSS AND SASS (PART 2)

## LECTURE

BUILDING THE ABOUT SECTION - PART 1

# WHAT YOU WILL LEARN IN THIS LECTURE

- Thinking about components;
- How and why to use utility classes;
- How to use the background-clip property;
- How to transform multiple properties simultaneously;
- How to use the outline-offset property together with outline;
- How to style elements that are NOT hovered while others are.



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TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

NATOURS PROJECT - USING ADVANCED  
CSS AND SASS (PART 2)

## LECTURE

BUILDING THE ABOUT SECTION - PART 2

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

NATOURS PROJECT - USING ADVANCED  
CSS AND SASS (PART 2)

## LECTURE

BUILDING THE ABOUT SECTION - PART 3

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

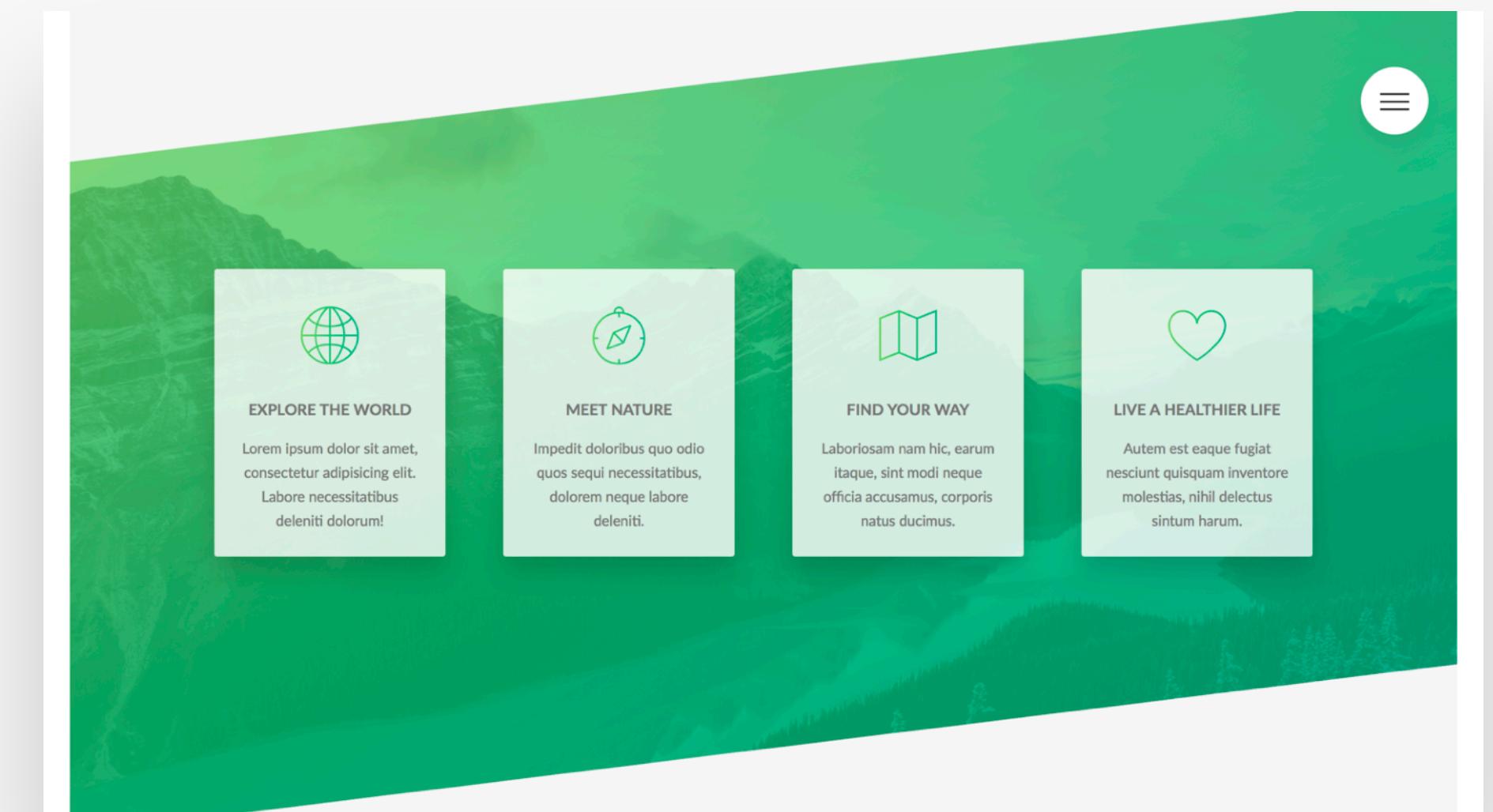
NATOURS PROJECT - USING ADVANCED  
CSS AND SASS (PART 2)

## LECTURE

BUILDING THE FEATURES SECTION

# WHAT YOU WILL LEARN IN THIS LECTURE

- How to include and use an icon font;
- Another way of creating the “skewed section” design;
- How and when to use the direct child selector.



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## SECTION

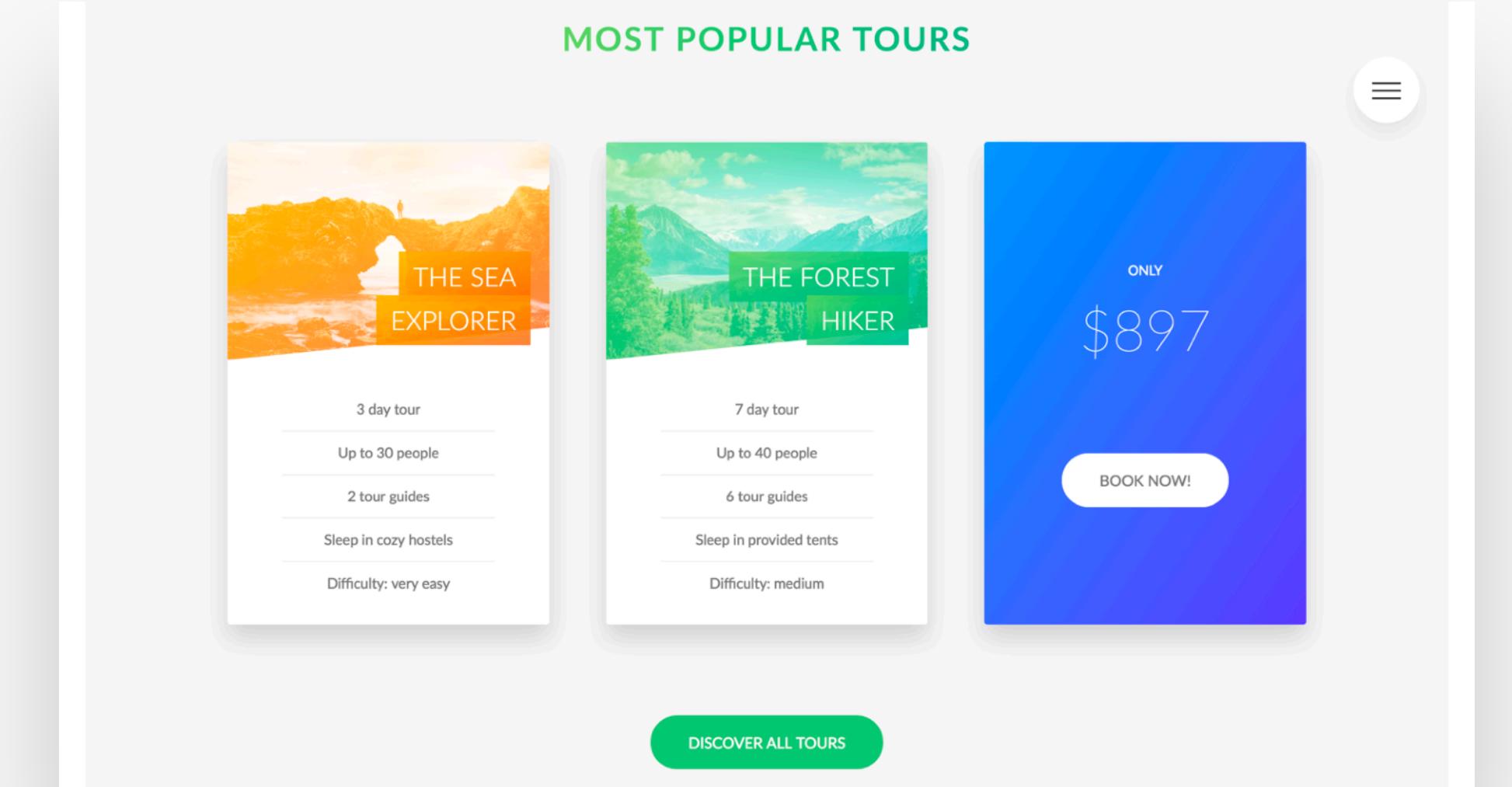
NATOURS PROJECT - USING ADVANCED  
CSS AND SASS (PART 2)

## LECTURE

BUILDING THE TOURS SECTION - PART 1

# WHAT YOU WILL LEARN IN THIS LECTURE

- How to build an amazing, rotating card;
- How to use perspective in CSS;
- How to use the backface-visibility property;
- Using background blend modes;
- How and when to use box-decoration-break;



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## SECTION

NATOURS PROJECT - USING ADVANCED  
CSS AND SASS (PART 2)

## LECTURE

BUILDING THE TOURS SECTION - PART 2

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## SECTION

NATOURS PROJECT - USING ADVANCED  
CSS AND SASS (PART 2)

## LECTURE

BUILDING THE TOURS SECTION - PART 3

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TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

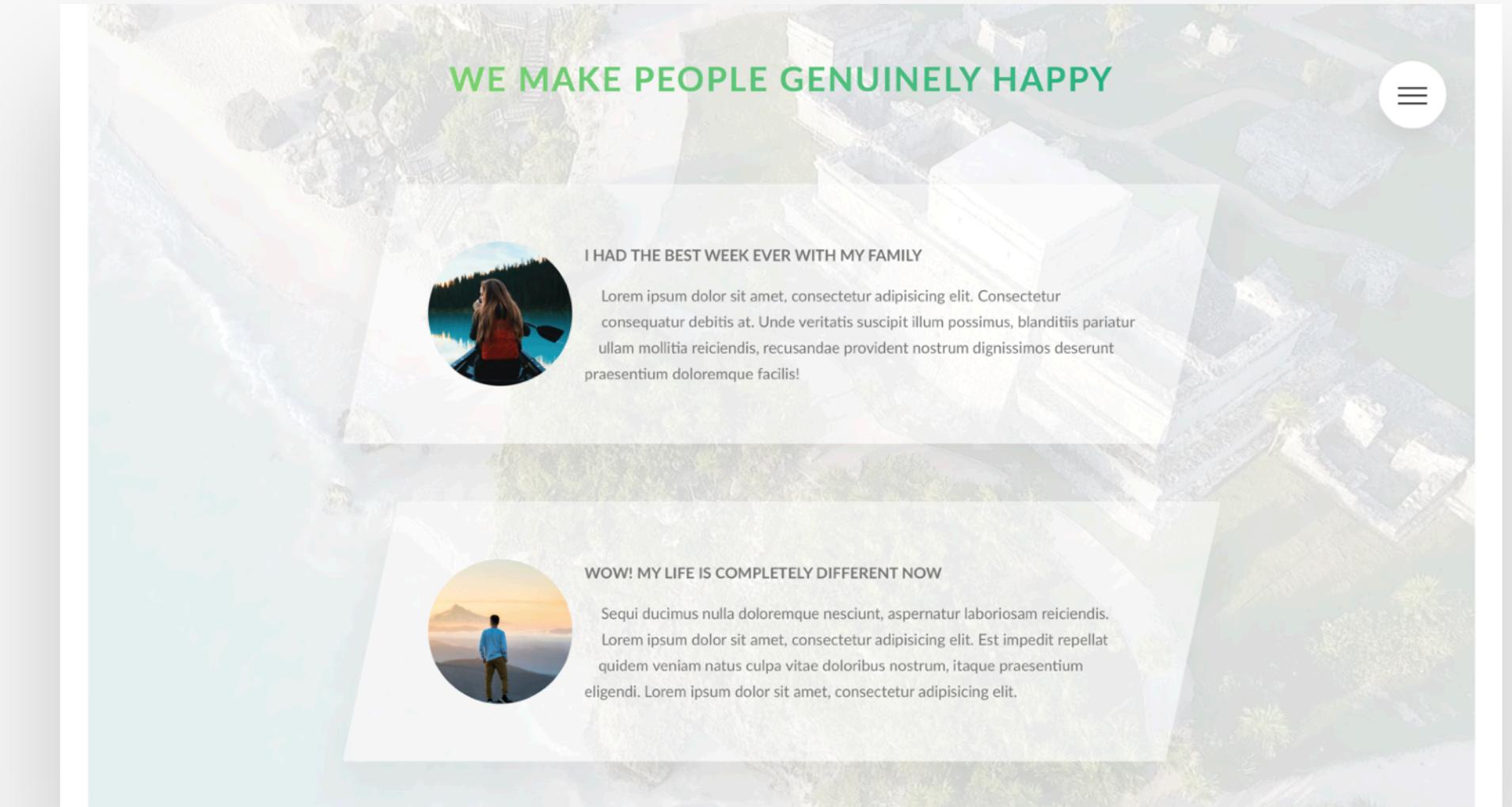
NATOURS PROJECT - USING ADVANCED  
CSS AND SASS (PART 2)

## LECTURE

BUILDING THE STORIES SECTION - PART 1

# WHAT YOU WILL LEARN IN THIS LECTURE

- How to make text flow around shapes with shape-outside and float;
- How to apply a filter to images;
- How to create a background video covering an entire section;
- How to use the <video> HTML element;
- How and when to use the object-fit property.



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## SECTION

NATOURS PROJECT - USING ADVANCED  
CSS AND SASS (PART 2)

## LECTURE

BUILDING THE STORIES SECTION - PART 2

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

NATOURS PROJECT - USING ADVANCED  
CSS AND SASS (PART 2)

## LECTURE

BUILDING THE STORIES SECTION - PART 3

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

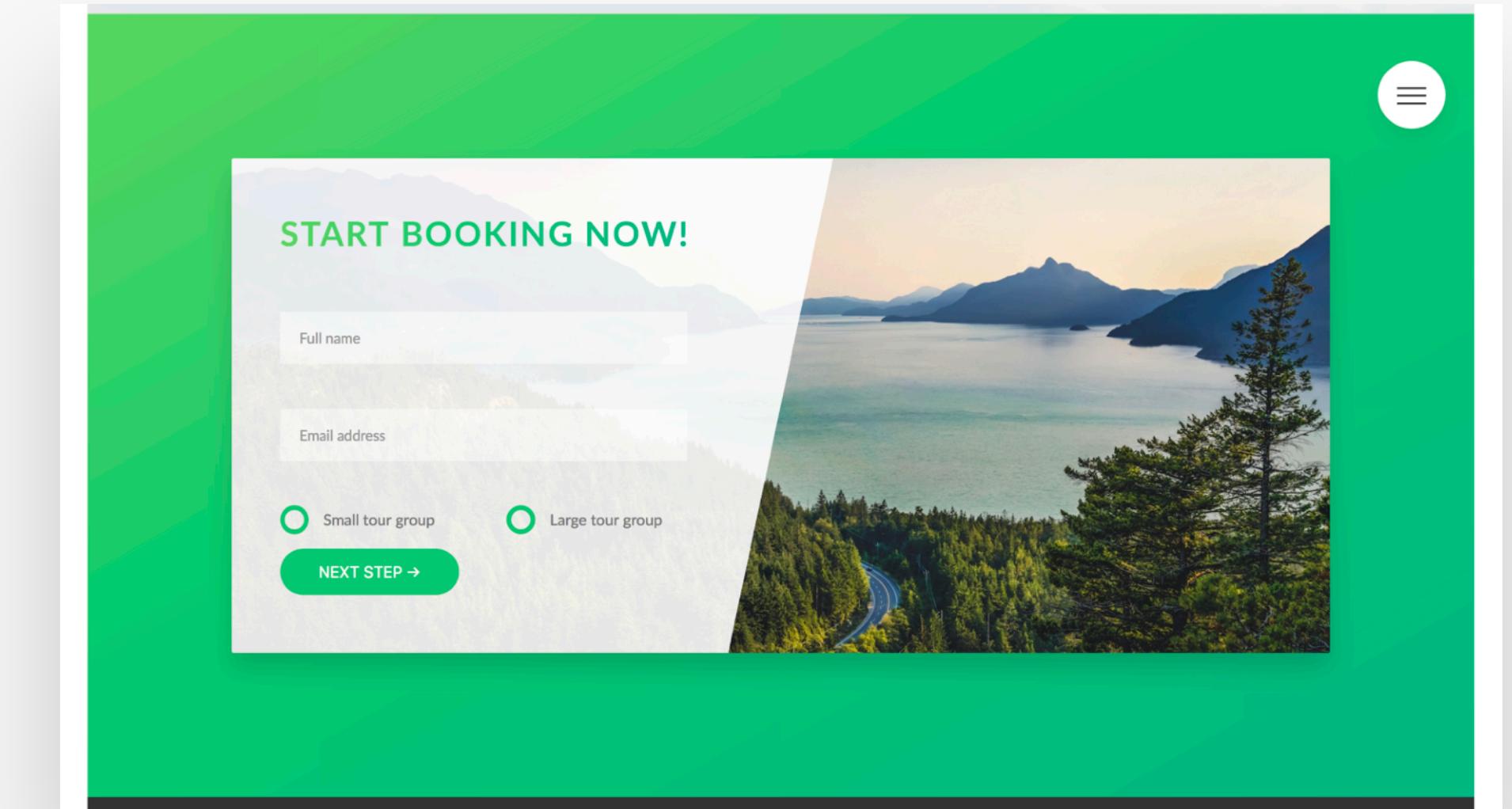
NATOURS PROJECT - USING ADVANCED  
CSS AND SASS (PART 2)

## LECTURE

BUILDING THE BOOKING SECTION - PART 1

# WHAT YOU WILL LEARN IN THIS LECTURE

- How to implement “solid-color gradients”;
- How the general and adjacent sibling selectors work and why we need them;
- How to use the `::input-placeholder` pseudo-element;
- How and when to use the `:focus`, `:invalid`, `placeholder-shown` and `:checked` pseudo-classes;
- Techniques to build custom radio buttons.



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## SECTION

NATOURS PROJECT - USING ADVANCED  
CSS AND SASS (PART 2)

## LECTURE

BUILDING THE BOOKING SECTION - PART 2

# ADVANCED CSS AND SASS

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## SECTION

NATOURS PROJECT - USING ADVANCED  
CSS AND SASS (PART 2)

## LECTURE

BUILDING THE BOOKING SECTION - PART 3

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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SECTION

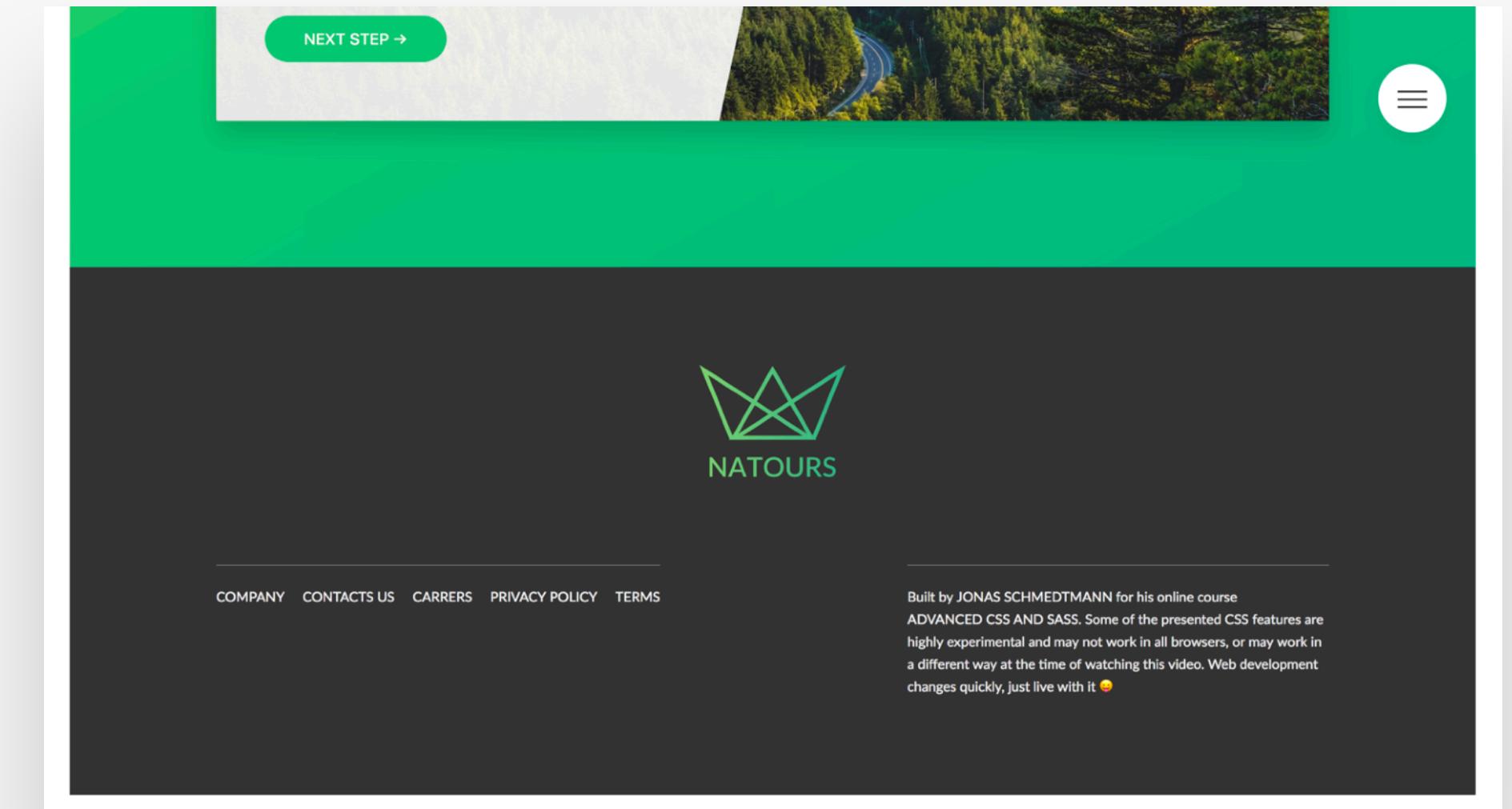
NATOURS PROJECT - USING ADVANCED  
CSS AND SASS (PART 2)

LECTURE

BUILDING THE FOOTER

# WHAT YOU WILL LEARN IN THIS LECTURE

- How to design a simple website footer.



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TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

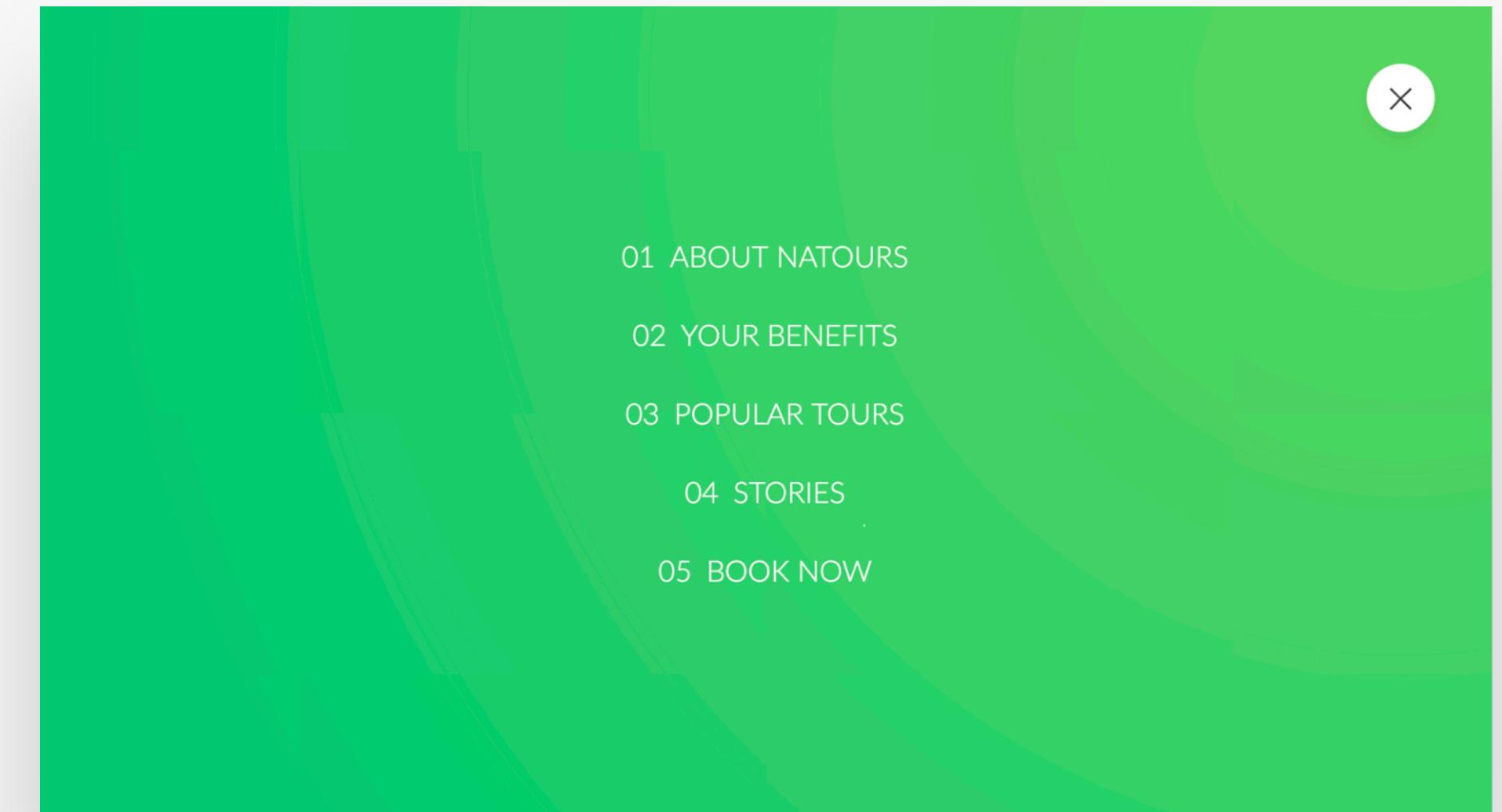
NATOURS PROJECT - USING ADVANCED  
CSS AND SASS (PART 2)

## LECTURE

BUILDING THE NAVIGATION - PART 1

# WHAT YOU WILL LEARN IN THIS LECTURE

- What the “checkbox hack” is and how it works;
- How to create custom animation timing functions using cubic bezier curves;
- How to animate “solid-color gradients”;
- How and why to use transform-origin;
- In general: create an amazingly creative effect!



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## SECTION

NATOURS PROJECT - USING ADVANCED  
CSS AND SASS (PART 2)

## LECTURE

BUILDING THE NAVIGATION - PART 2

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

NATOURS PROJECT - USING ADVANCED  
CSS AND SASS (PART 2)

## LECTURE

BUILDING THE NAVIGATION - PART 3

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

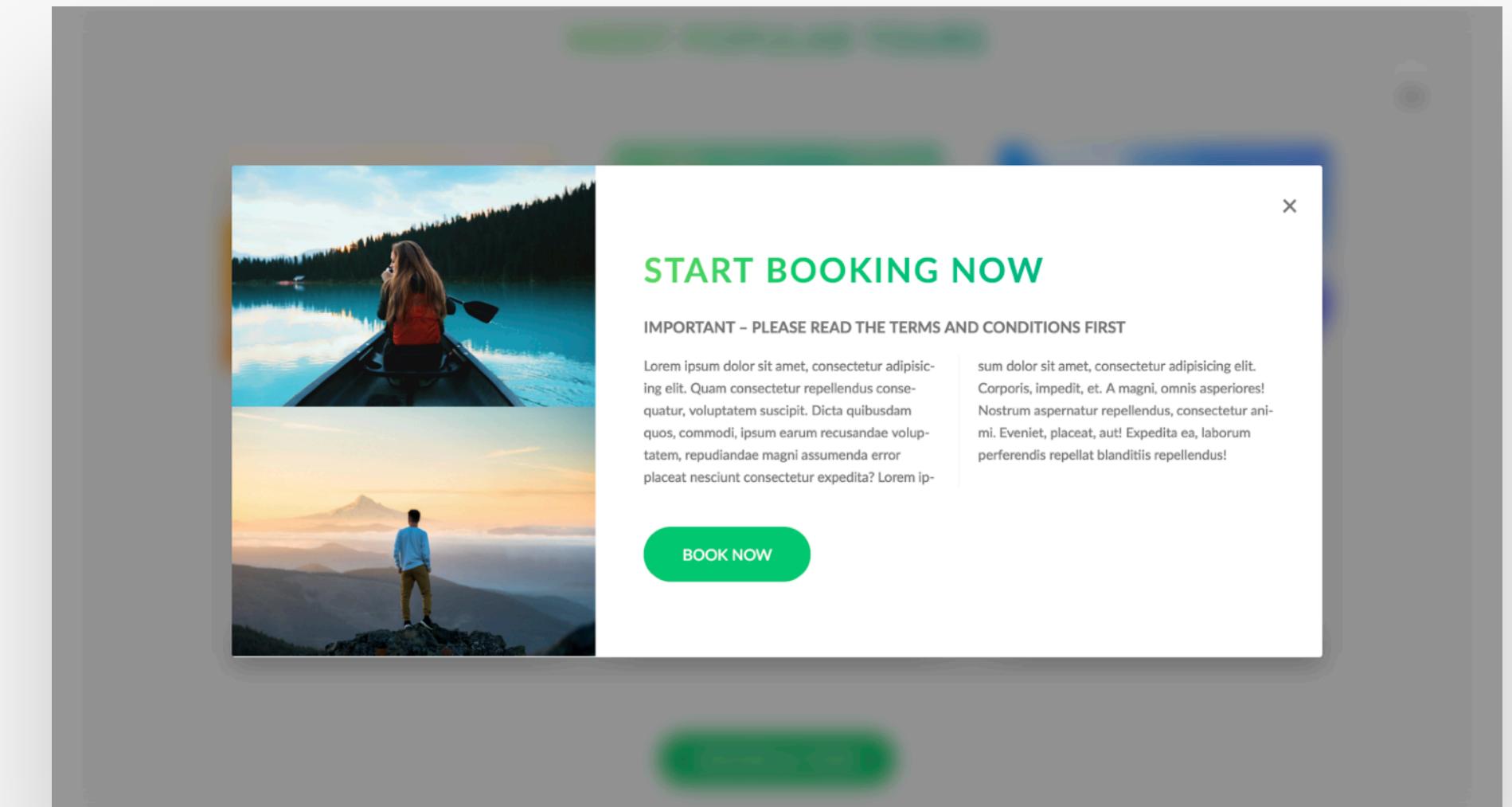
NATOURS PROJECT - USING ADVANCED  
CSS AND SASS (PART 2)

## LECTURE

BUILDING A PURE CSS POPUP - PART 1

# WHAT YOU WILL LEARN IN THIS LECTURE

- How to build a nice popup with only CSS;
- How to use the :target pseudo-class;
- How to create boxes with equal height using `display: table-cell;`
- How to create CSS text columns;
- How to automatically hyphenate words using hyphens.



# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

NATOURS PROJECT - USING ADVANCED  
CSS AND SASS (PART 2)

## LECTURE

BUILDING A PURE CSS POPUP - PART 2

**SECTION 6 –  
NATOURS PROJECT  
PART 3**

# ADVANCED CSS AND SASS

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## SECTION

NATOURS PROJECT - ADVANCED  
RESPONSIVE DESIGN (PART 3)

## LECTURE

SECTION INTRO

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

NATOURS PROJECT - ADVANCED  
RESPONSIVE DESIGN (PART 3)

## LECTURE

MOBILE-FIRST VS DESKTOP-FIRST AND  
BREAKPOINTS

# RESPONSIVE DESIGN STRATEGIES

```
html { font-size: 20px; }
@media (max-width: 600px) {
    html { font-size: 16px; }
}
```

- Start writing CSS for the desktop: large screen;
- Then, media queries shrink design to smaller screens.



MOBILE-FIRST

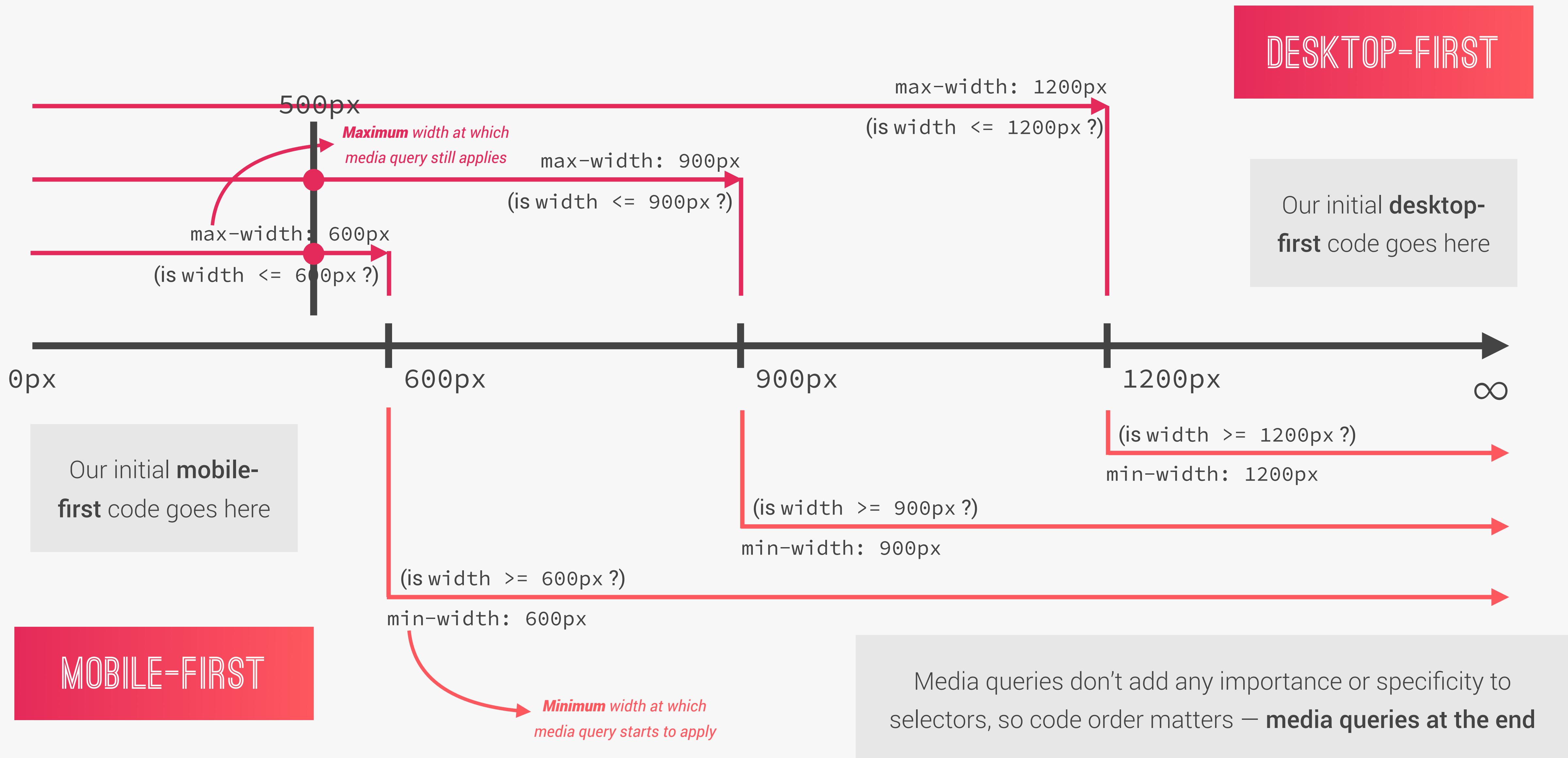
DESKTOP-FIRST



- Start writing CSS for mobile devices: small screen;
- Then, media queries expand design to a large desktop screen;
- Forces us to reduce websites and apps to the absolute essentials.

```
html { font-size: 16px; }
@media (min-width: 600px) {
    html { font-size: 20px; }
}
```

# RESPONSIVE DESIGN STRATEGIES: MAX-WIDTH AND MIN-WIDTH



# IS MOBILE-FIRST RIGHT FOR YOU?

## PROS

- 100% optimised for the mobile experience;
- Reduces websites and apps to the absolute essentials;
- Results in smaller, faster and more efficient products;
- Prioritizes content over aesthetic design, which may be desirable.

## CONS

- The desktop version might feel overly empty and simplistic;
- More difficult and counterintuitive to develop;
- Less creative freedom, making it more difficult to create distinctive products;
- Clients are used to see a desktop version of the site as a prototype;
- Do your users even use the mobile internet? What's the purpose of your website?

NO MATTER WHAT YOU DO, ALWAYS KEEP BOTH DESKTOP AND MOBILE IN MIND

# SELECTING OUR BREAKPOINTS: THE OPTIONS

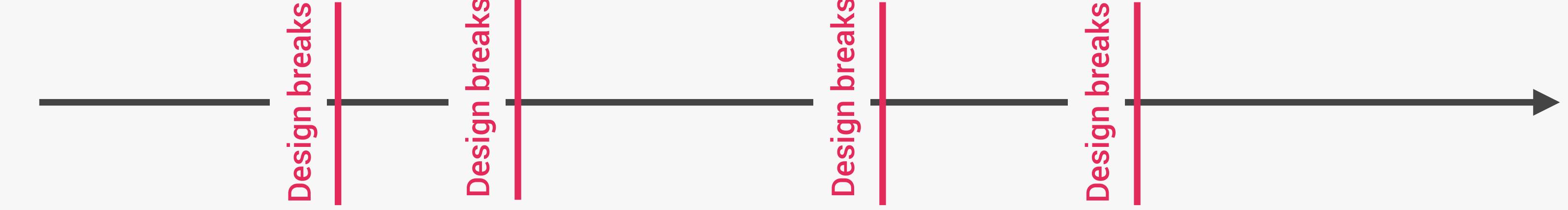
BAD



GOOD



PERFECT



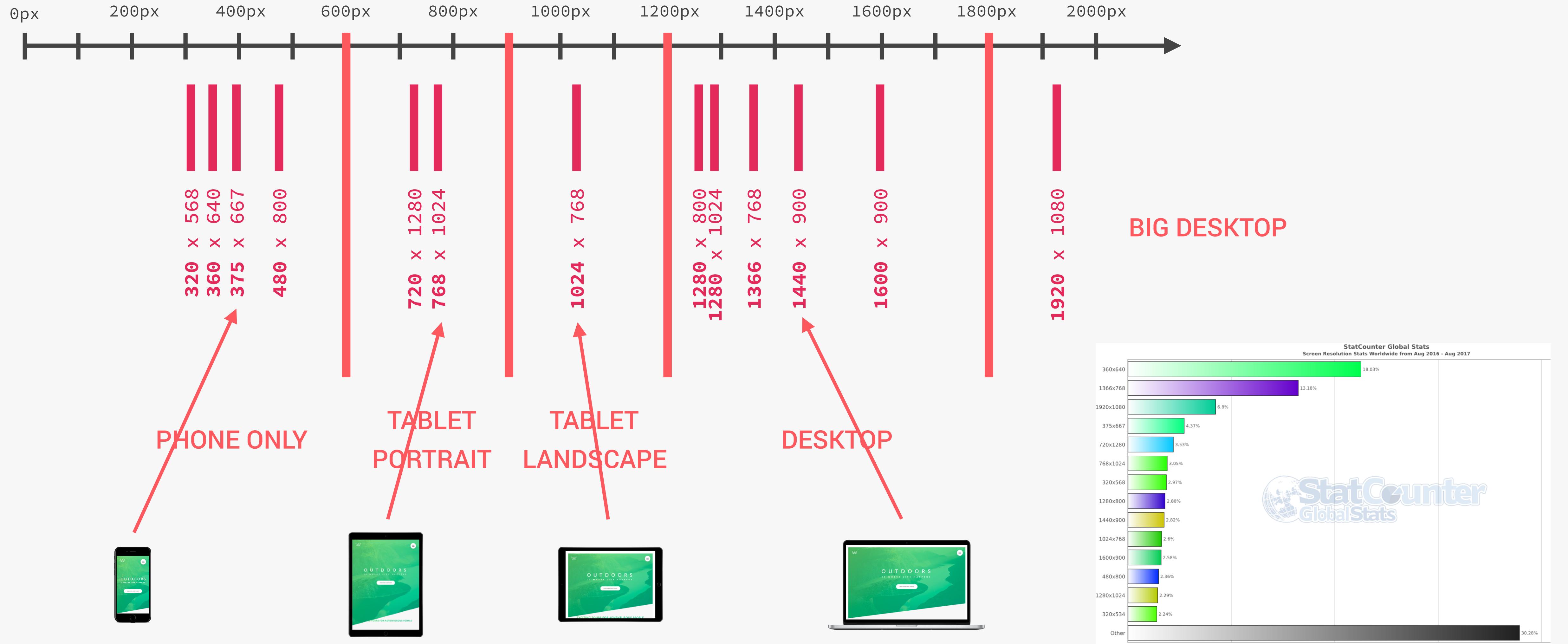
Design breaks

Design breaks

Design breaks

Design breaks

# SELECTING OUR BREAKPOINTS: A GOOD APPROACH



[<http://gs.statcounter.com/screen-resolution-stats#monthly-201608-201708-bar>]

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## SECTION

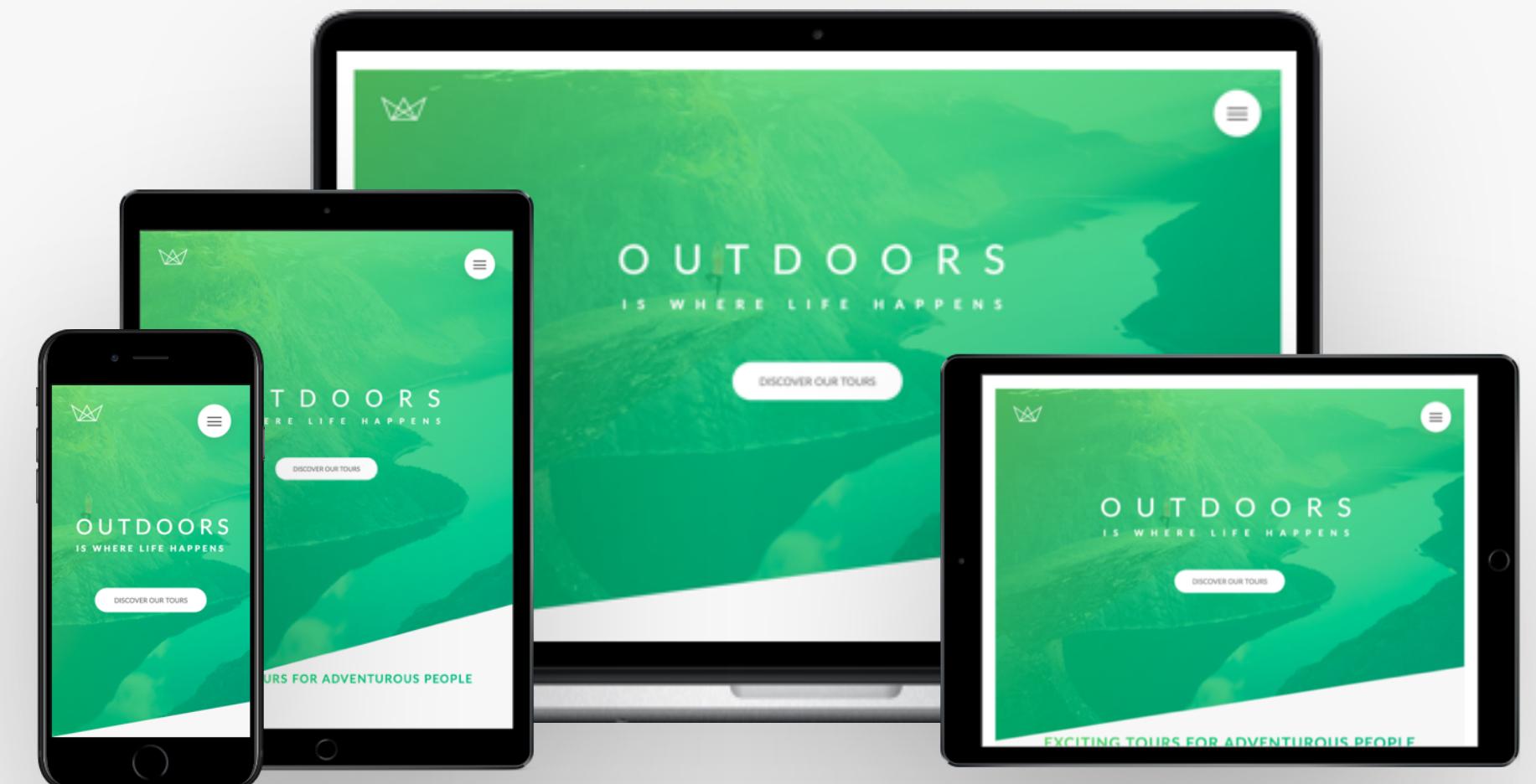
NATOURS PROJECT - ADVANCED  
RESPONSIVE DESIGN (PART 3)

## LECTURE

LET'S USE THE POWER OF SASS MIXINS  
TO WRITE MEDIA QUERIES

# WHAT YOU WILL LEARN IN THIS LECTURE

- How to use a powerful Sass mixing to write all our media queries;
- How to use the @content and @if Sass directives;
- Taking advantage of Chrome DevTools for responsive design.



# ADVANCED CSS AND SASS

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## SECTION

NATOURS PROJECT - ADVANCED  
RESPONSIVE DESIGN (PART 3)

## LECTURE

WRITING MEDIA QUERIES - BASE,  
TYPOGRAPHY AND LAYOUT

# ADVANCED CSS AND SASS

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## SECTION

NATOURS PROJECT - ADVANCED  
RESPONSIVE DESIGN (PART 3)

## LECTURE

WRITING MEDIA QUERIES - LAYOUT,  
ABOUT AND FEATURES SECTIONS

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

NATOURS PROJECT - ADVANCED  
RESPONSIVE DESIGN (PART 3)

## LECTURE

WRITING MEDIA QUERIES - TOURS,  
STORIES AND BOOKING SECTIONS

# ADVANCED CSS AND SASS

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## SECTION

NATOURS PROJECT - ADVANCED  
RESPONSIVE DESIGN (PART 3)

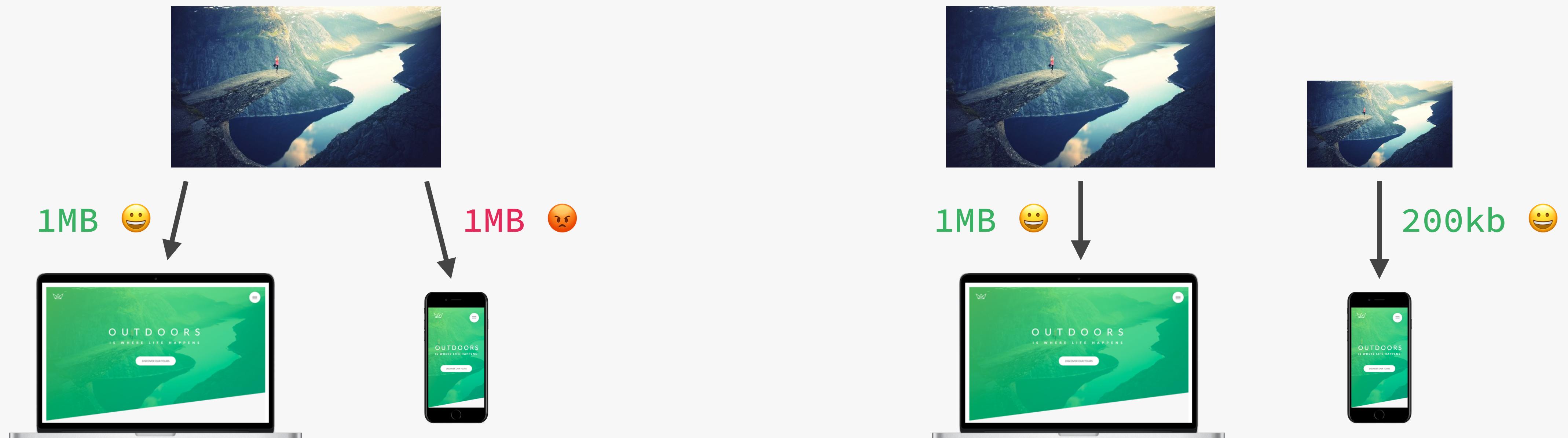
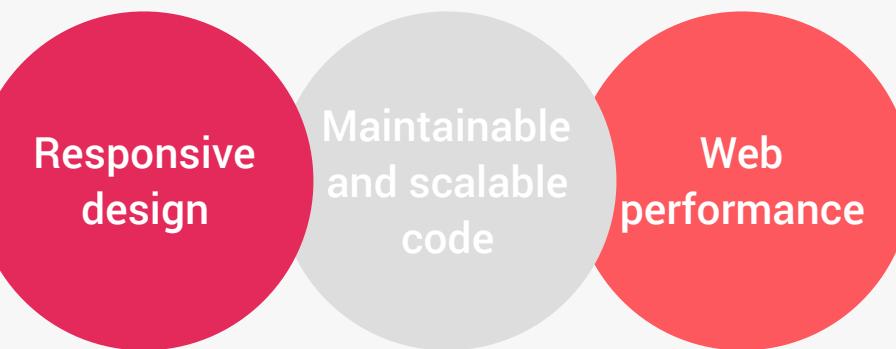
## LECTURE

AN OVERVIEW OF RESPONSIVE IMAGES

# WHAT ARE RESPONSIVE IMAGES ANYWAY?

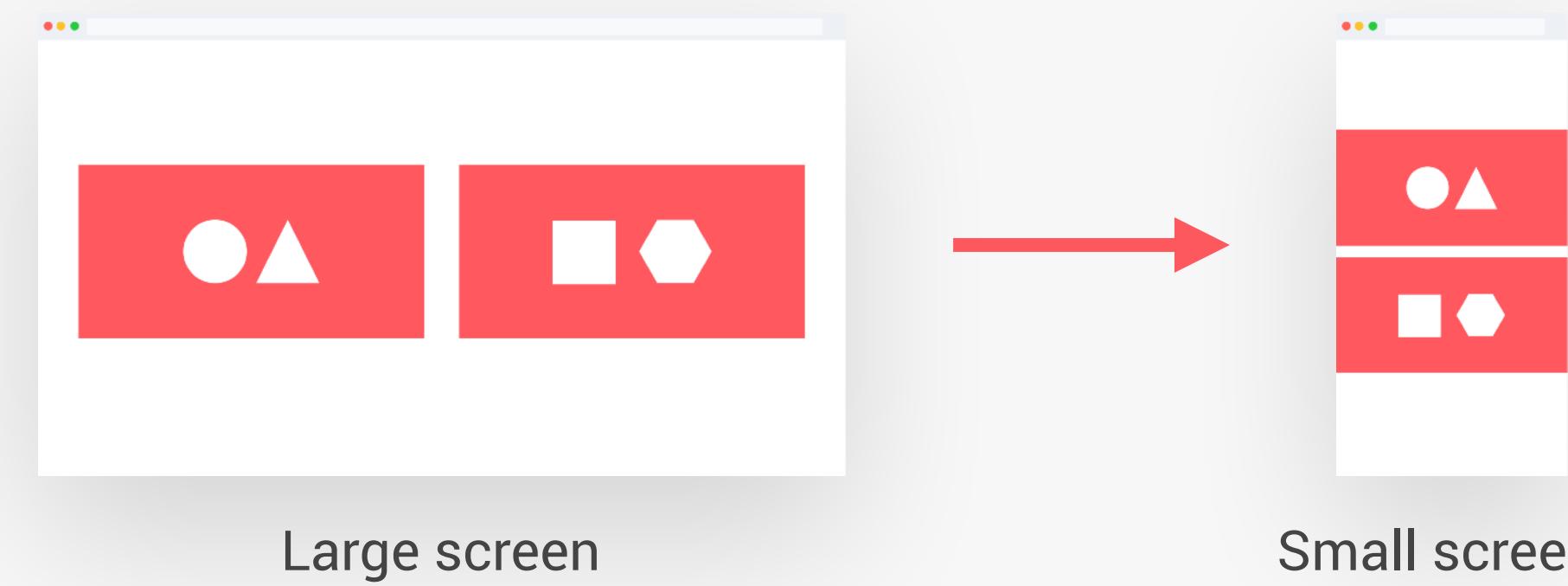
## RESPONSIVE IMAGES

The goal of responsive images is to serve the **right image** to the **right screen size** and device, in order to avoid downloading unnecessary large images on smaller screens.



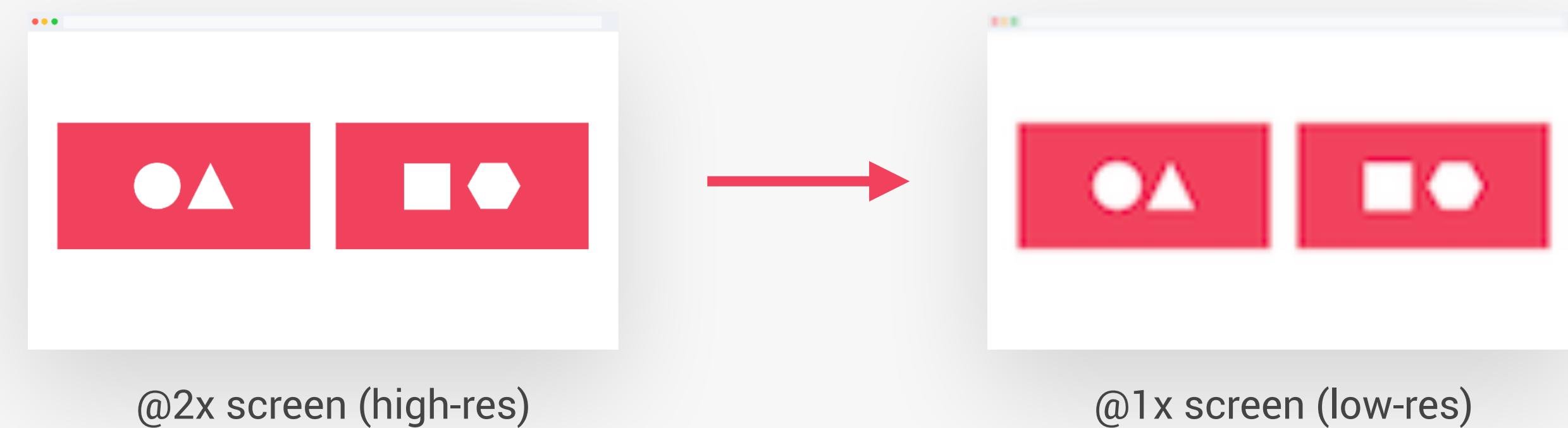
# WHEN TO USE RESPONSIVE IMAGES: THE 3 USE CASES

## RESOLUTION SWITCHING



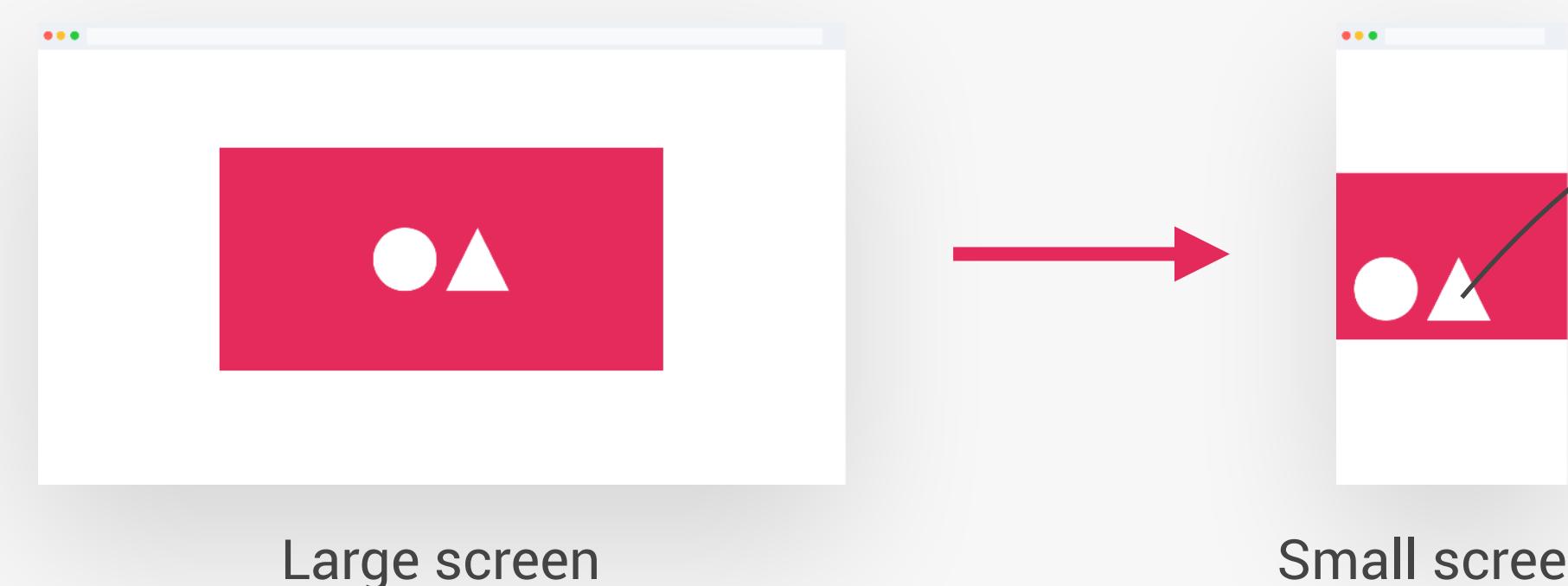
(Decrease image resolution on smaller screen)

## DENSITY SWITCHING



(Half the image resolution on @1x screen)

## ART DIRECTION



*Image details were preserved, but the image is different*  
(Different image on smaller screen)

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## SECTION

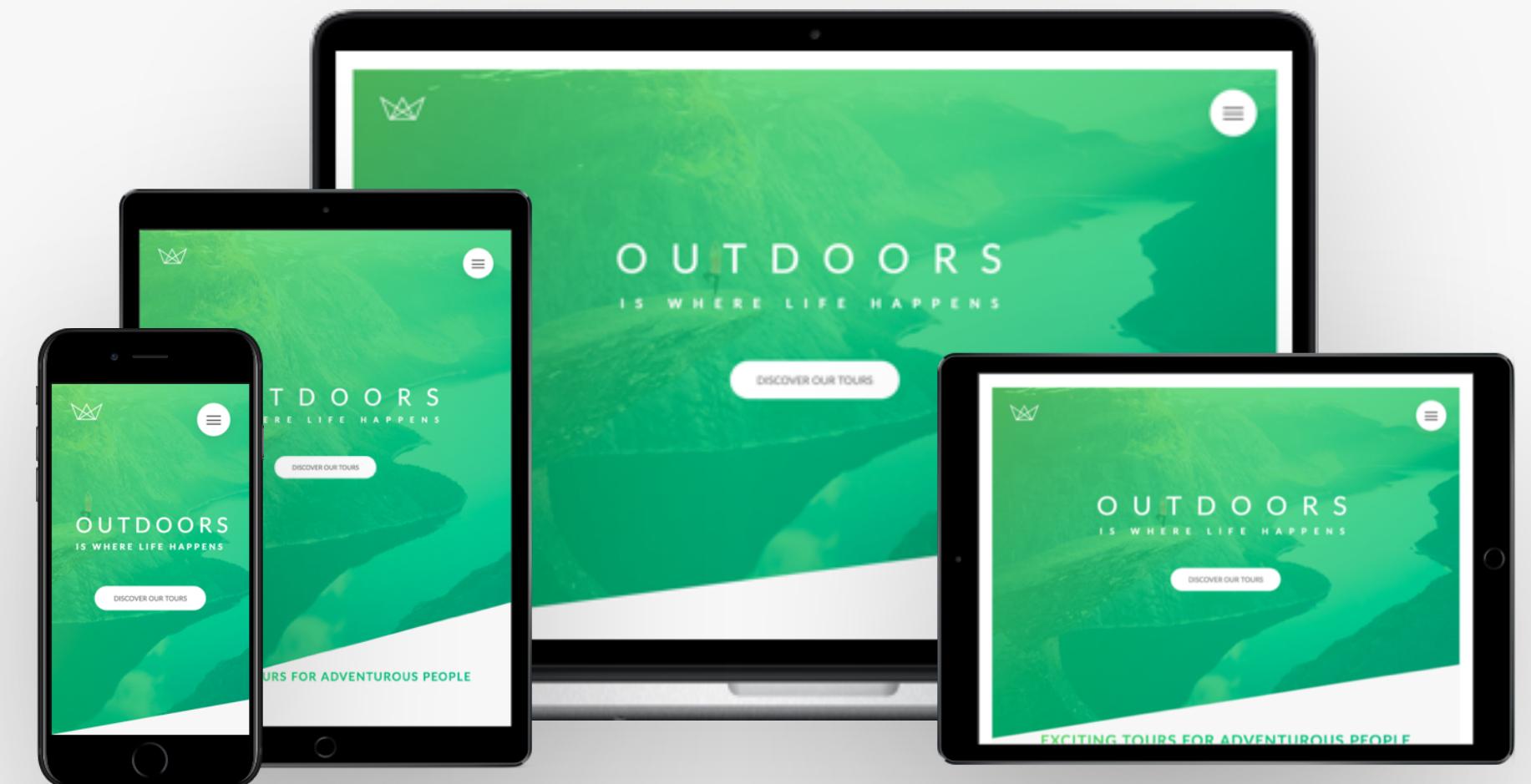
NATOURS PROJECT - ADVANCED  
RESPONSIVE DESIGN (PART 3)

## LECTURE

RESPONSIVE IMAGES IN HTML - ART  
DIRECTION AND DENSITY SWITCHING

# WHAT YOU WILL LEARN IN THIS LECTURE

- How to use the `srcset` attribute on the `<img>` and `<source>` elements, together with density descriptors;
- How and why to use the `<picture>` element for art direction;
- How to write media queries in HTML.



# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

NATOURS PROJECT - ADVANCED  
RESPONSIVE DESIGN (PART 3)

## LECTURE

RESPONSIVE IMAGES IN HTML - DENSITY  
AND RESOLUTION SWITCHING

# WHAT YOU WILL LEARN IN THIS LECTURE

- How to allow the browser to decide the best image to download, using the `srcset` attribute, width descriptors, and the `sizes` attribute of the `<img>` element.



# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

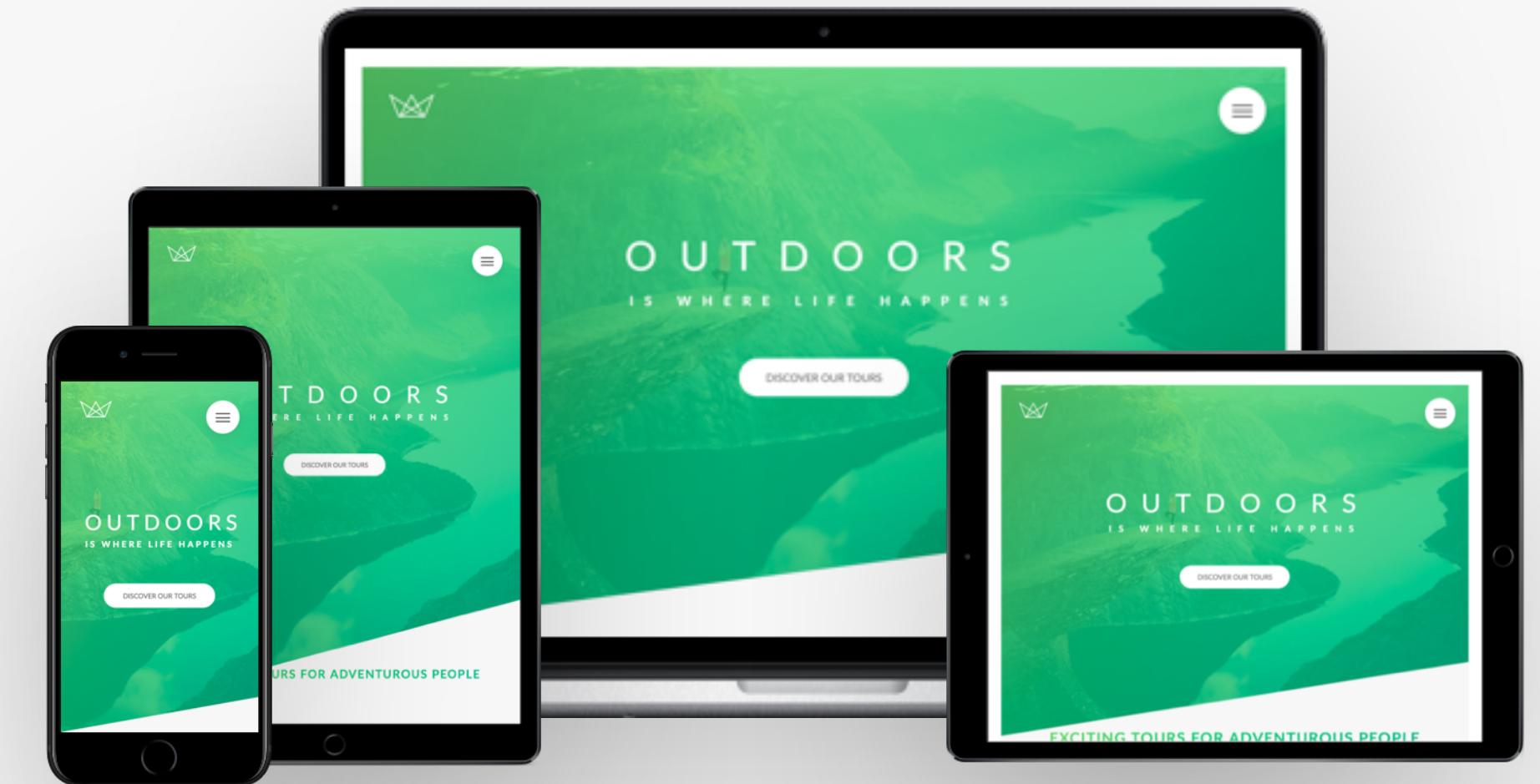
NATOURS PROJECT - ADVANCED  
RESPONSIVE DESIGN (PART 3)

## LECTURE

RESPONSIVE IMAGES IN CSS

# WHAT YOU WILL LEARN IN THIS LECTURE

- How to implement responsive images in CSS;
- How to use resolution media queries to target high-resolution screens with 2x.
- How to combine multiple conditions in media queries.



# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

NATOURS PROJECT - ADVANCED  
RESPONSIVE DESIGN (PART 3)

## LECTURE

TESTING FOR BROWSER SUPPORT WITH  
@SUPPORTS

**WARNING!**

MANY OF THE NEW CSS FEATURES I SHOWED YOU ARE  
HIGHLY EXPERIMENTAL AND ONLY WORK IN TOP  
MODERN BROWSERS

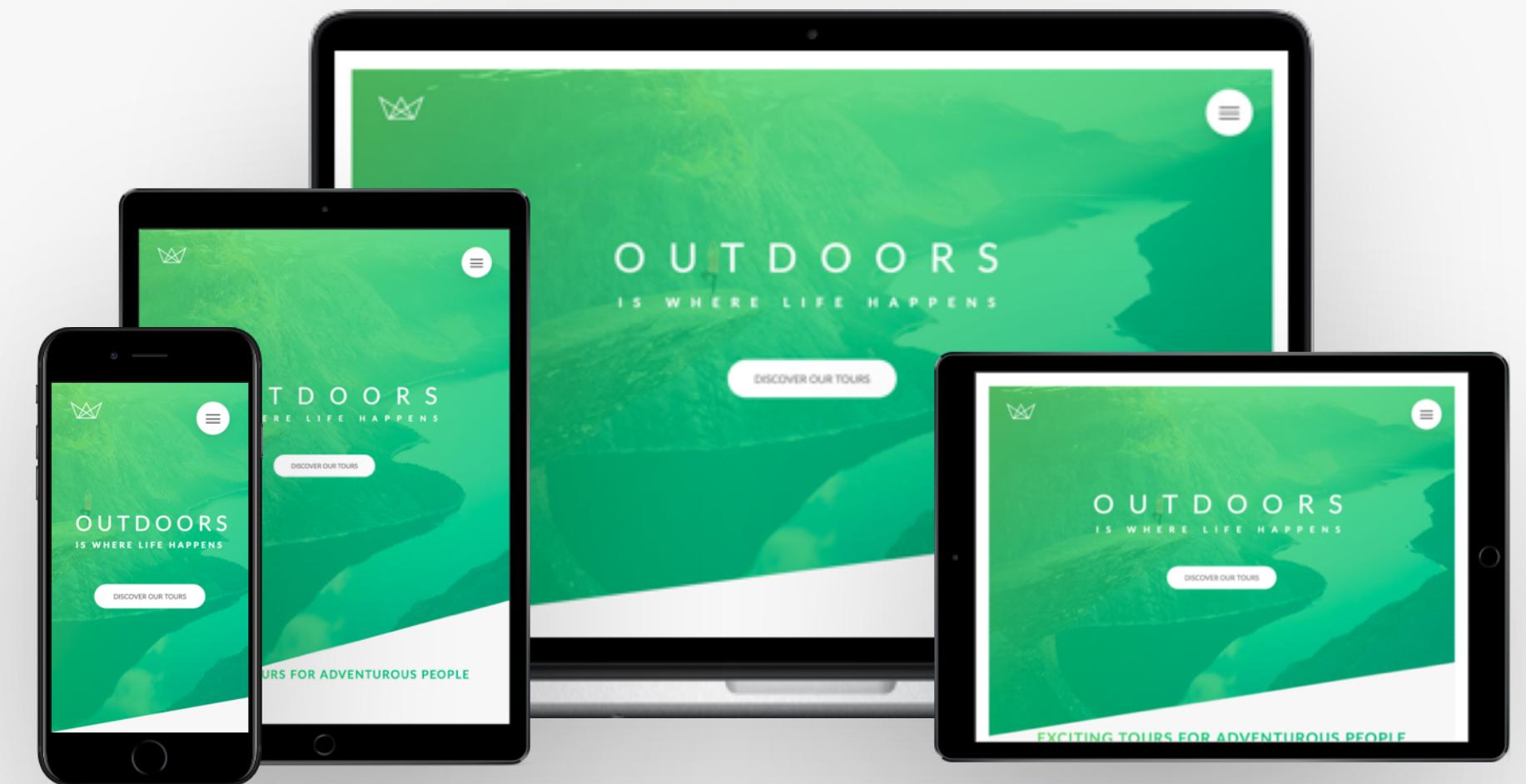
ALWAYS CHECK [CANIUSE.COM](http://caniuse.com) BEFORE USING A  
MODERN CSS PROPERTY IN PRODUCTION



USE GRACEFUL DEGRADATION WITH @SUPPORTS

# WHAT YOU WILL LEARN IN THIS LECTURE

- How to use @supports feature queries;
- Implement graceful degradation on selected properties;
- How to use backdrop-filter.



# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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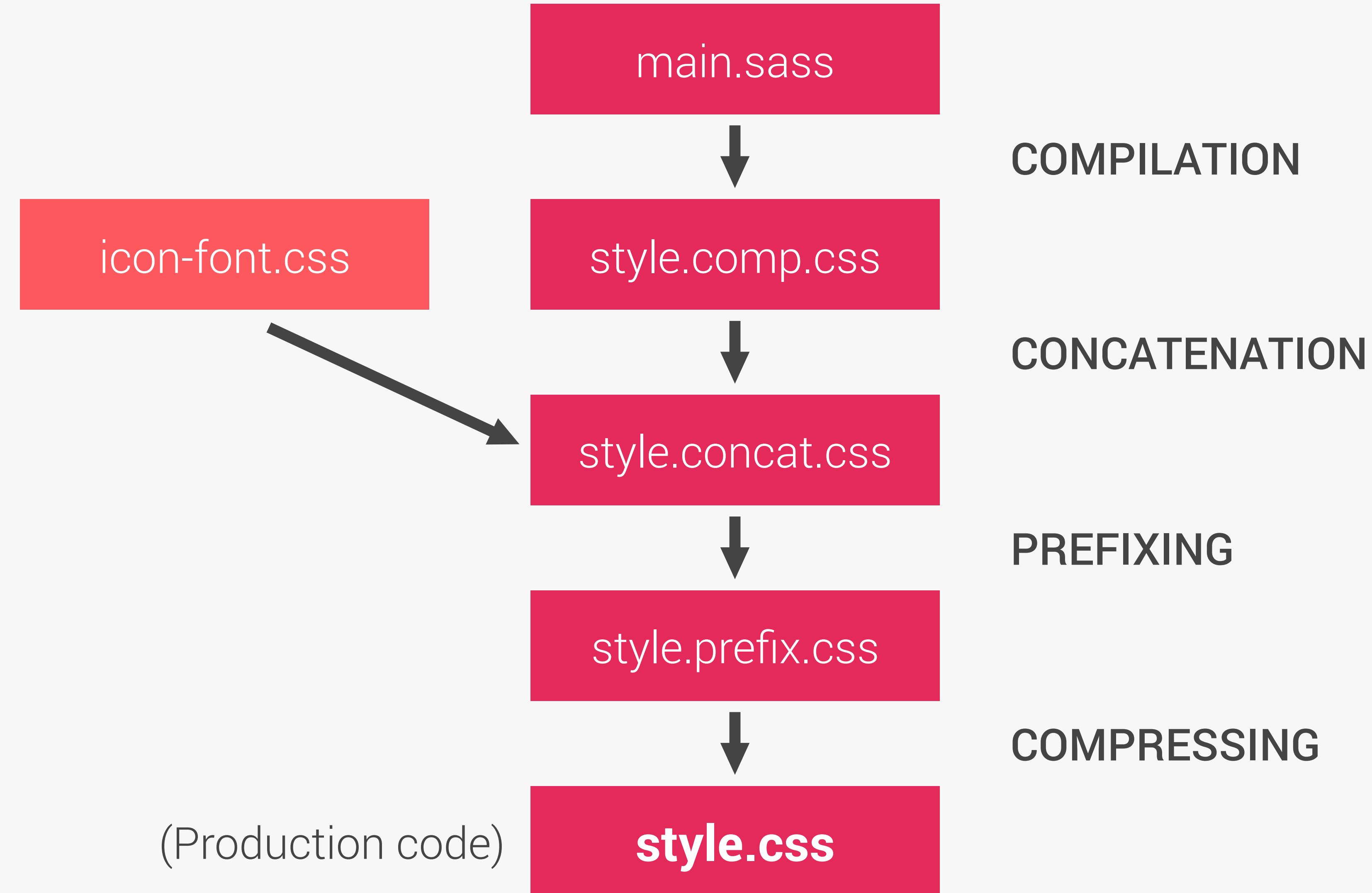
## SECTION

NATOURS PROJECT - ADVANCED  
RESPONSIVE DESIGN (PART 3)

## LECTURE

SETTING UP A SIMPLE BUILD PROCESS  
WITH NPM SCRIPTS

# A SIMPLE BUILD PROCESS



# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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## SECTION

NATOURS PROJECT - ADVANCED  
RESPONSIVE DESIGN (PART 3)

## LECTURE

WRAPPING UP THE NATOURS PROJECT:  
FINAL CONSIDERATIONS

# SECTION 7 – TRILLO PROJECT: MASTER FLEXBOX!

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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SECTION

TRILLO PROJECT - MASTER FLEXBOX!

LECTURE

SECTION INTRO

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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SECTION

TRILLO PROJECT - MASTER FLEXBOX!

LECTURE

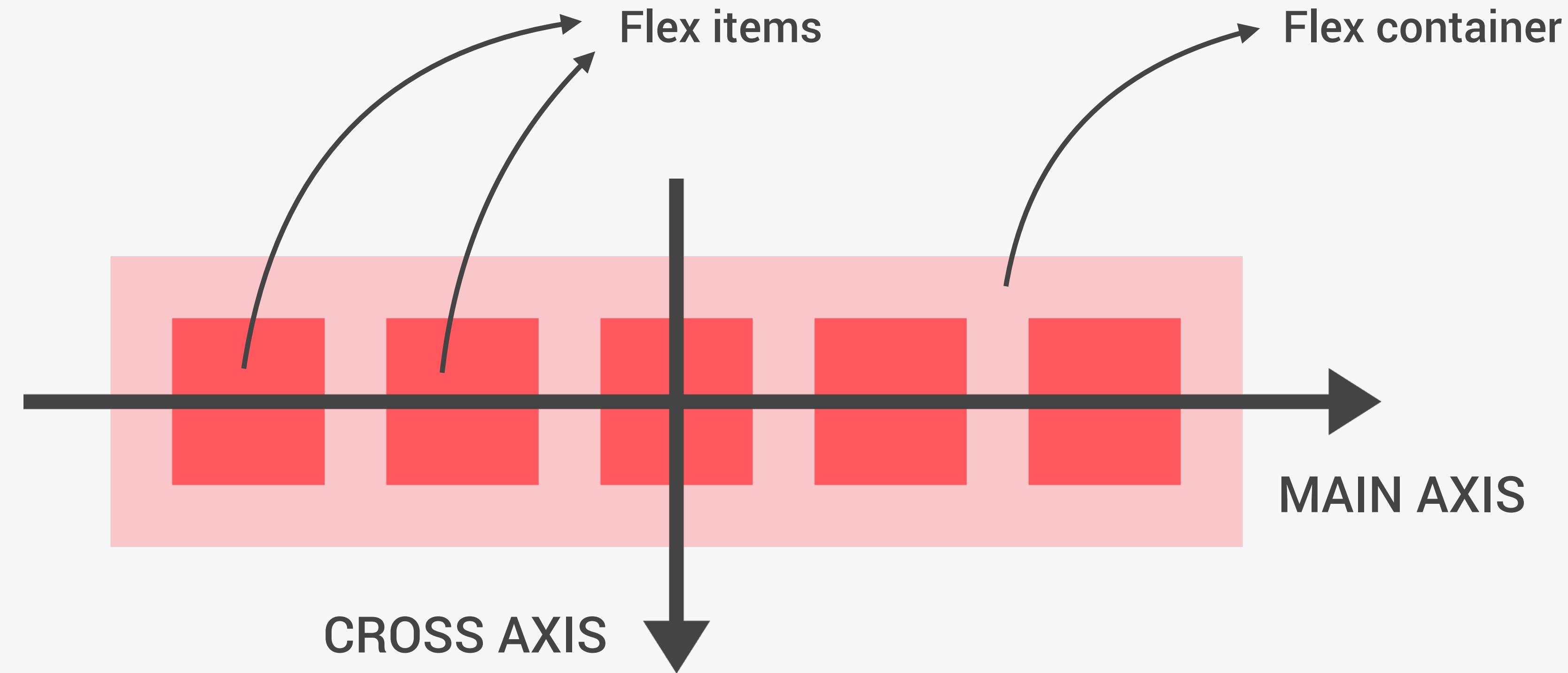
WHY FLEXBOX: AN OVERVIEW OF THE  
PHILOSOPHY BEHIND FLEXBOX

# A TRUE REVOLUTION

## FLEXBOX

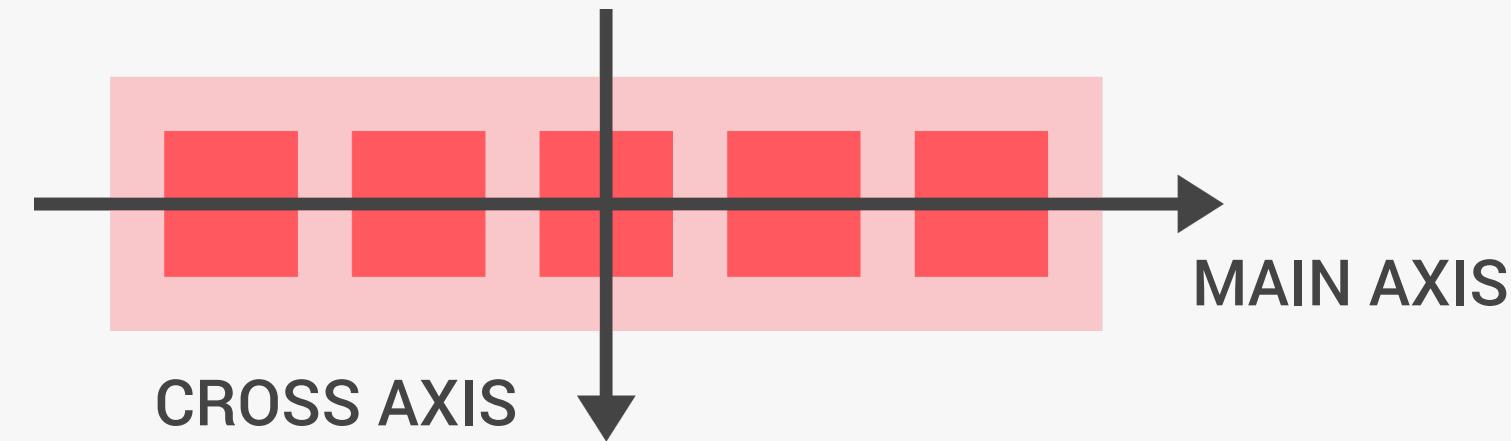
- Flexbox is a new module in CSS3 that makes it easy to align elements to one another, in different directions and orders;
- The main idea behind flexbox is to give the container the ability to expand and to shrink elements to best use all the available space;
- Flexbox replaces float layouts, using less, and more readable and logical code;
- Flexbox completely changes the way that we build one-dimensional layouts;
- A true revolution in CSS!

# MAIN FLEXBOX CONCEPTS



`display: flex`  
(`display: flex-inline`)

# FLEXBOX PROPERTIES OVERVIEW



## CONTAINER

1 **flex-direction:** row | row-reverse | column | column-reverse

2 **flex-wrap:** nowrap | wrap | wrap-reverse

3 **justify-content:** flex-start | flex-end | center | space-between | space-around | space-evenly

4 **align-items:** stretch | flex-start | flex-end | center | baseline

5 **align-content:** stretch | flex-start | flex-end | center | space-between | space-around

## ITEM

1 **align-self:** auto | stretch | flex-start | flex-end | center | baseline

2 **order:** 0 | <integer>

3 **flex-grow:** 0 | <integer>

4 **flex-shrink:** 1 | <integer>

5 **flex-basis:** auto | <length>

**flex:** 0 1 auto | <int> <int> <len>

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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SECTION

TRILLO PROJECT - MASTER FLEXBOX!

LECTURE

A BASIC INTRO TO FLEXBOX: THE FLEX CONTAINER

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TRILLO PROJECT - MASTER FLEXBOX!

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A BASIC INTRO TO FLEXBOX: FLEX ITEMS

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TRILLO PROJECT - MASTER FLEXBOX!

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A BASIC INTRO TO FLEXBOX: ADDING  
MORE FLEX ITEMS

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TRILLO PROJECT - MASTER FLEXBOX!

LECTURE

PROJECT OVERVIEW

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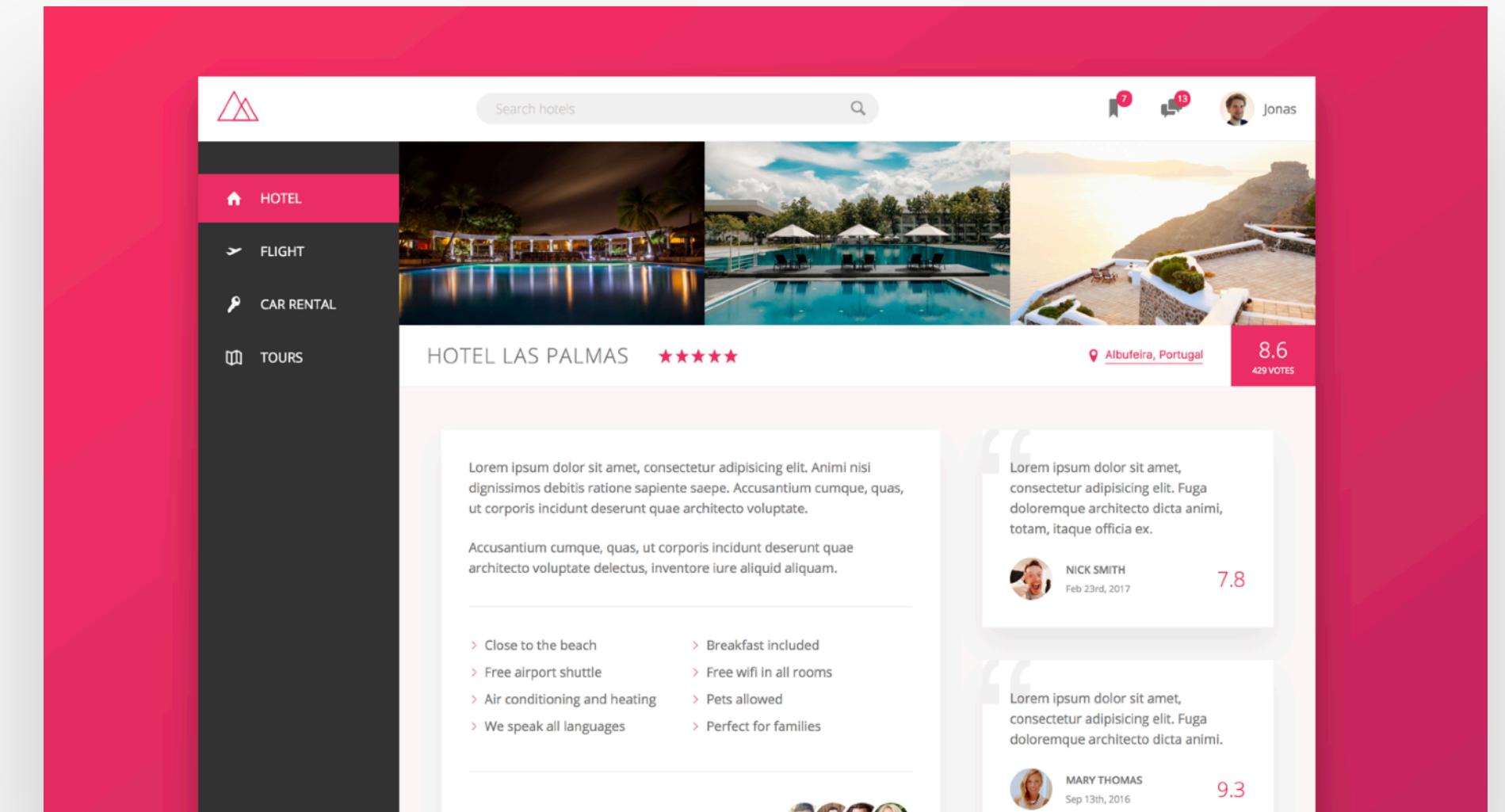
TRILLO PROJECT - MASTER FLEXBOX!

LECTURE

DEFINING PROJECT SETTINGS AND  
CUSTOM PROPERTIES

# WHAT YOU WILL LEARN IN THIS LECTURE

- How and why to use CSS custom properties.





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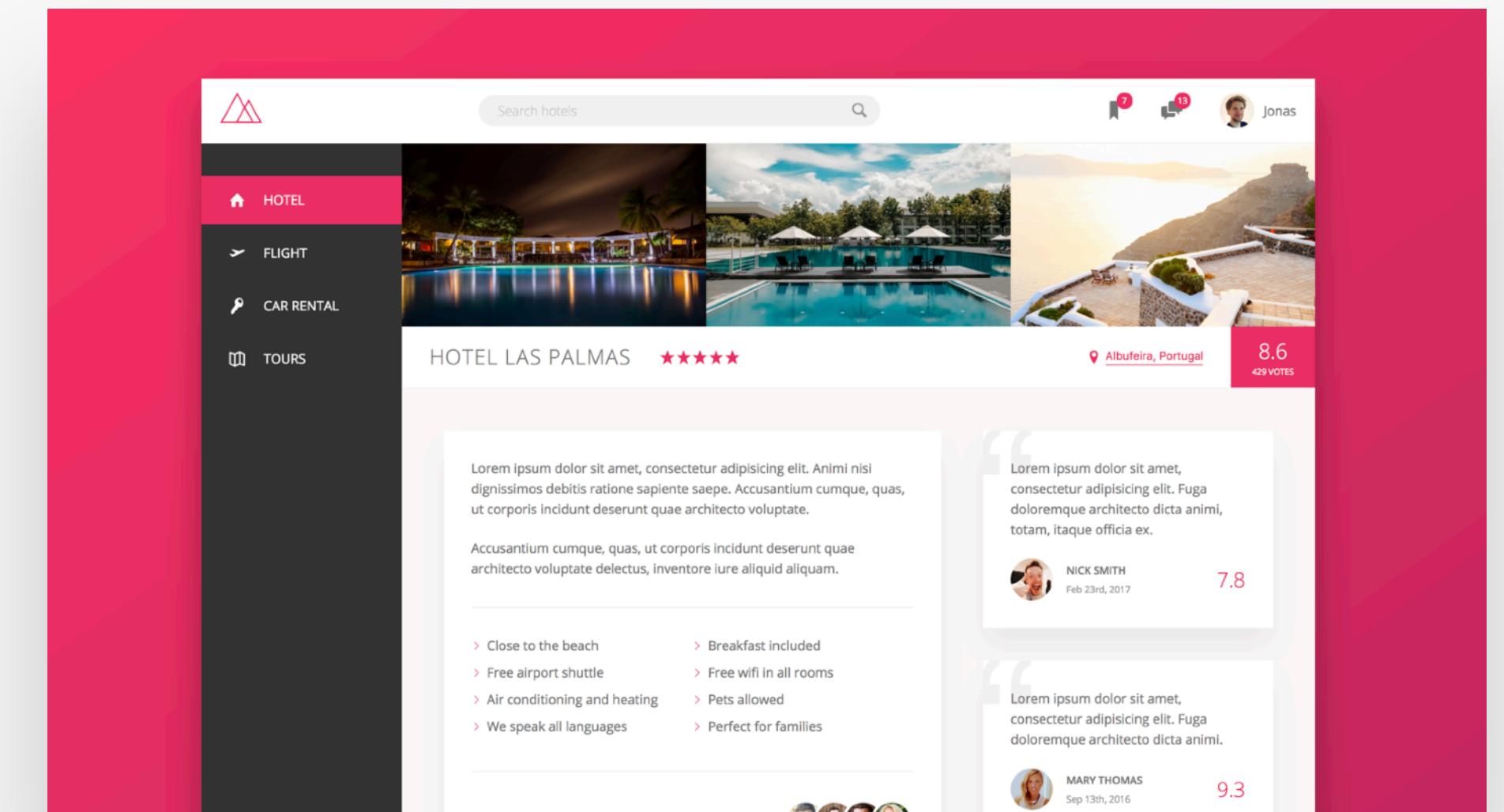
TRILLO PROJECT - MASTER FLEXBOX!

LECTURE

BUILDING THE OVERALL LAYOUT

# WHAT YOU WILL LEARN IN THIS LECTURE

- How to think about the overall layout of an app;
- Use flexbox in a real-world project for the first time.



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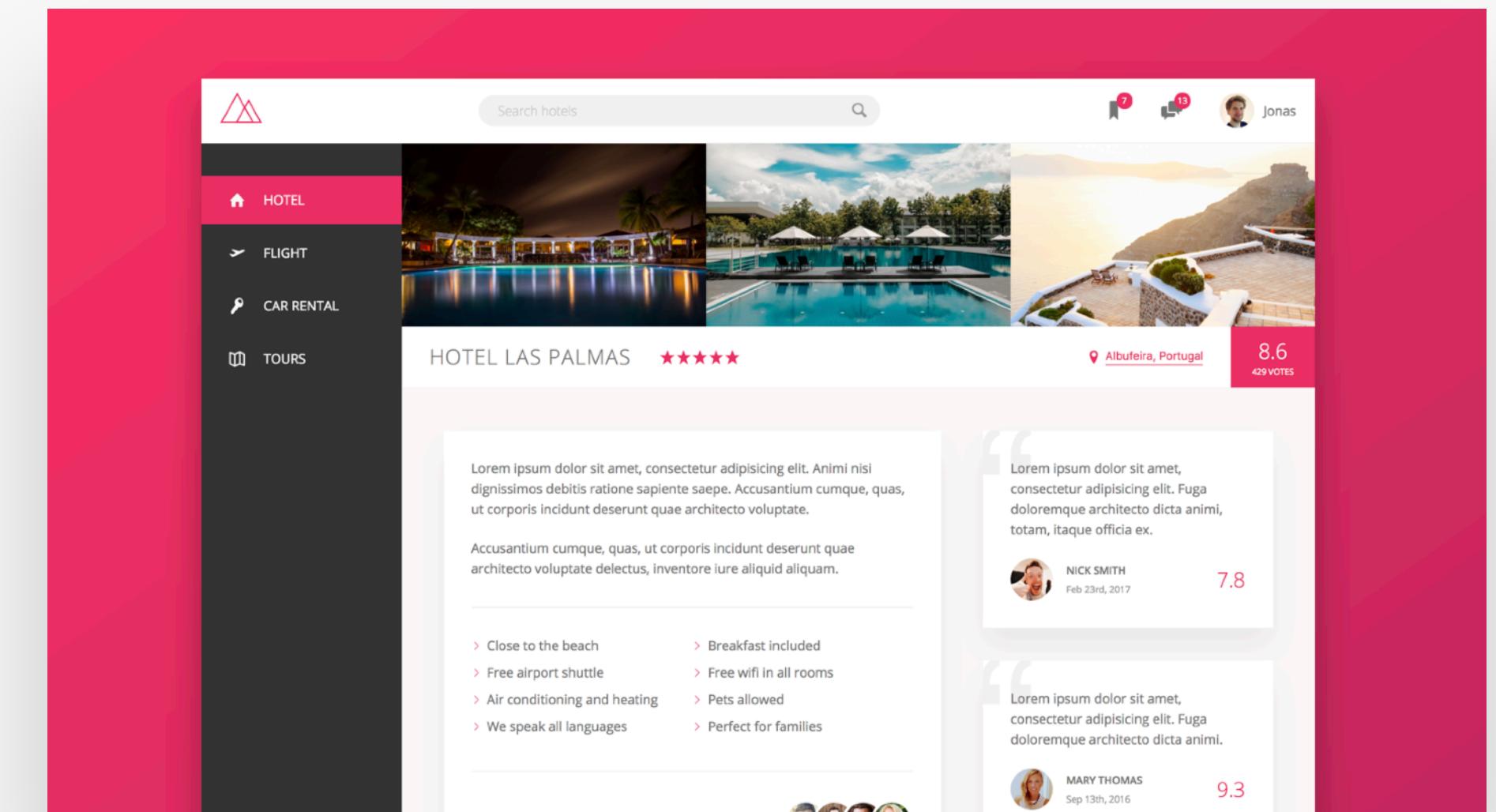
TRILLO PROJECT - MASTER FLEXBOX!

LECTURE

BUILDING THE HEADER - PART 1

# WHAT YOU WILL LEARN IN THIS LECTURE

- Why to use SVG icons vs. font icons;
- How to find, generate and use SVG sprites in HTML;
- How to change the color of an SVG icon in CSS;
- How to use more advanced flexbox alignment techniques, including justify-content, align-items, align-self and flex.



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LECTURE

BUILDING THE HEADER - PART 2

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TRILLO PROJECT - MASTER FLEXBOX!

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BUILDING THE HEADER - PART 3

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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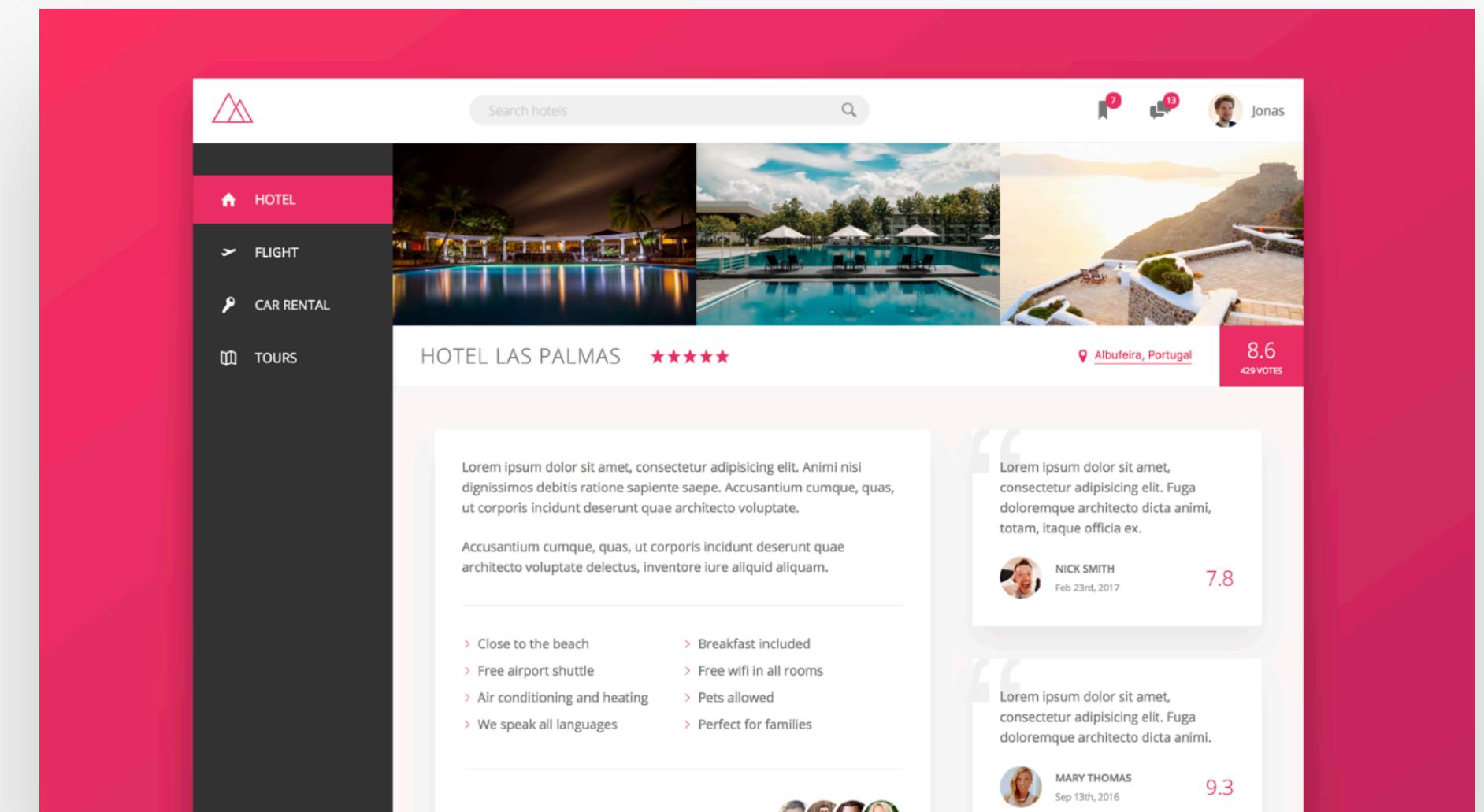
TRILLO PROJECT - MASTER FLEXBOX!

LECTURE

BUILDING THE NAVIGATION - PART 1

# WHAT YOU WILL LEARN IN THIS LECTURE

- How to use scaleY and multiple transition properties with different settings, to create a creative hover effect;
- How and why to use the currentColor CSS variable;
- How to use some more advanced flexbox alignment techniques, including flex-direction, justify-content and align-items.



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TAKE YOUR CSS TO THE NEXT LEVEL!



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LECTURE

BUILDING THE NAVIGATION - PART 2

# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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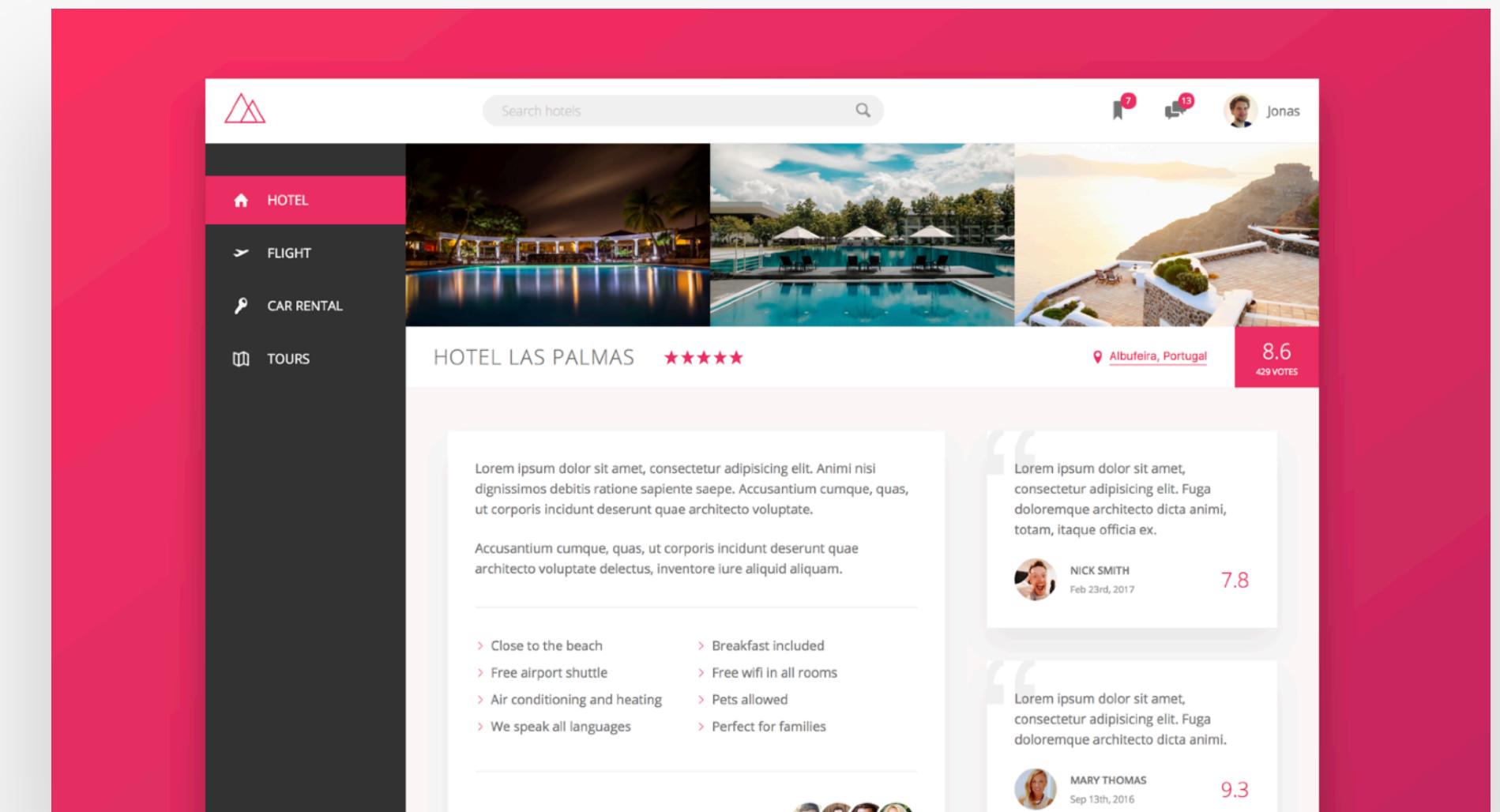
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LECTURE

BUILDING THE HOTEL OVERVIEW - PART 1

# WHAT YOU WILL LEARN IN THIS LECTURE

- How to create an infinite animation;
- How to use margin: auto with flexbox, and why it's so powerful;
- Continue to use flexbox properties for easy positioning and alignment.



# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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TRILLO PROJECT - MASTER FLEXBOX!

LECTURE

BUILDING THE HOTEL OVERVIEW - PART 2

# ADVANCED CSS AND SASS

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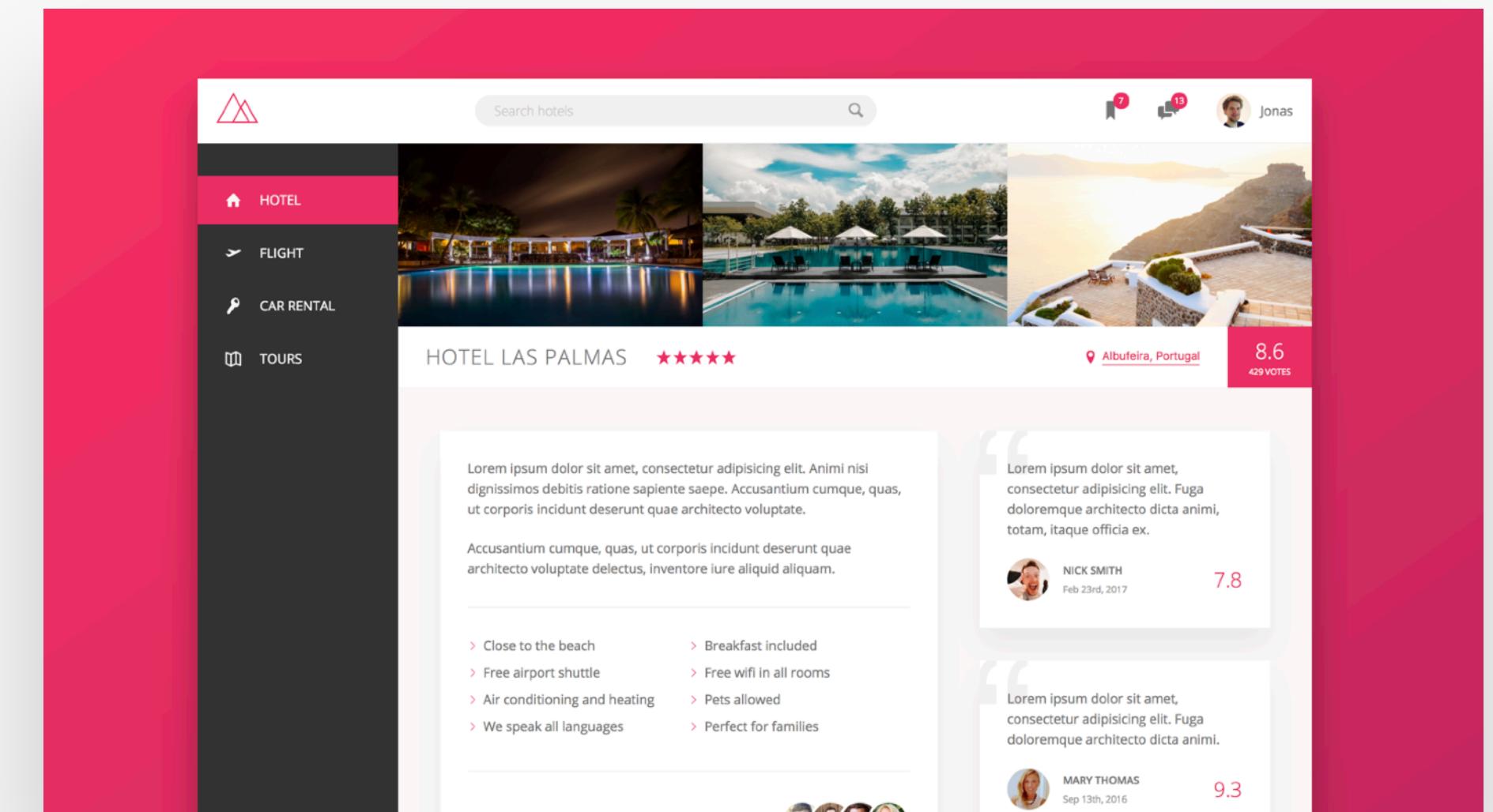
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LECTURE

BUILDING THE DESCRIPTION SECTION -  
PART 1

# WHAT YOU WILL LEARN IN THIS LECTURE

- Continue to use flexbox, including flex-wrap to build a multi-column list;
- How and why to use CSS masks with mask-image and mask-size.



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TRILLO PROJECT - MASTER FLEXBOX!

LECTURE

BUILDING THE DESCRIPTION SECTION -  
PART 2

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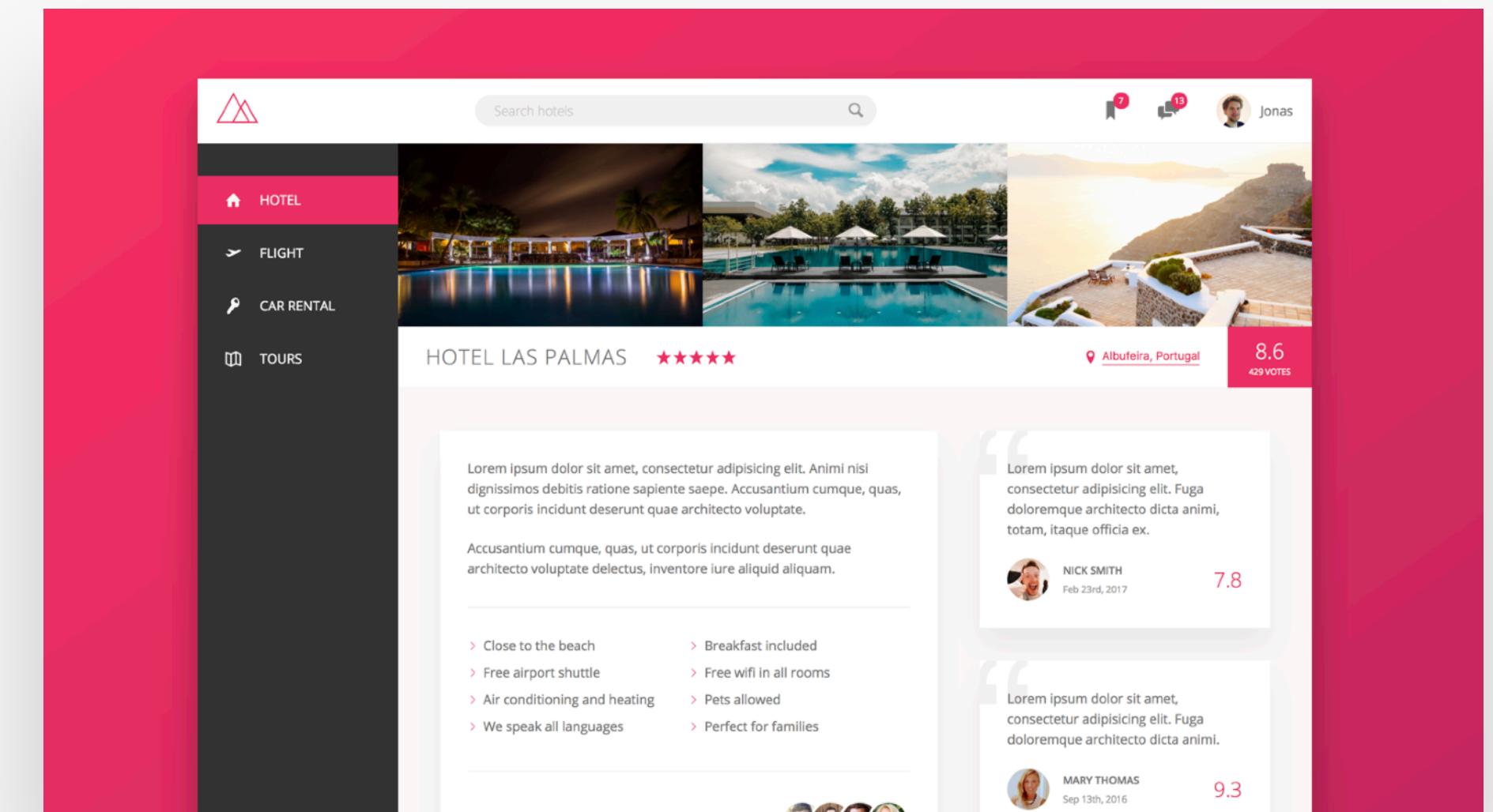
TRILLO PROJECT - MASTER FLEXBOX!

LECTURE

BUILDING THE USER REVIEWS SECTION

# WHAT YOU WILL LEARN IN THIS LECTURE

- Continue using and practicing flexbox.



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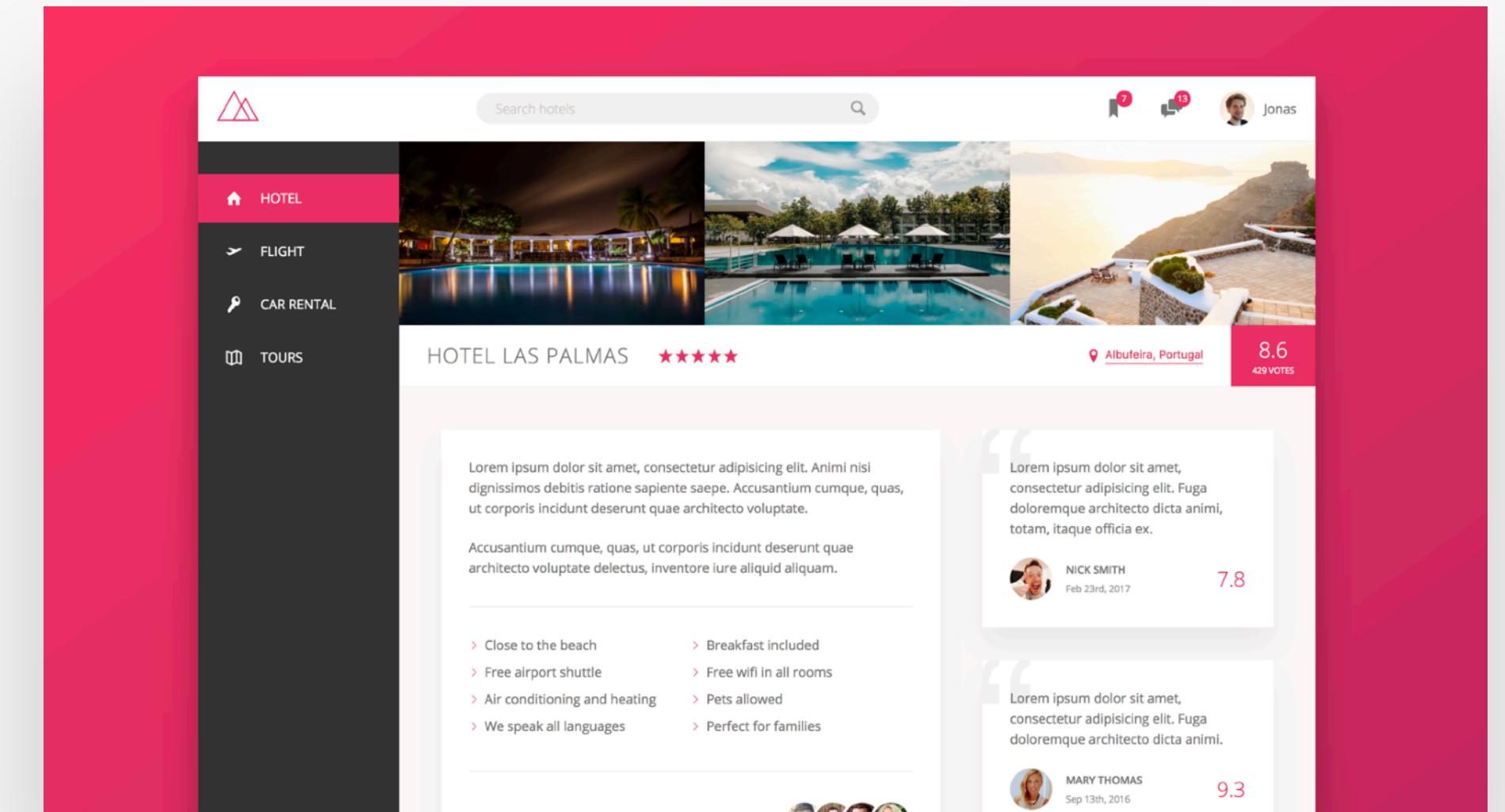
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LECTURE

BUILDING THE CTA SECTION

# WHAT YOU WILL LEARN IN THIS LECTURE

- Yet another creative and modern hover effect 😍



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LECTURE

WRITING MEDIA QUERIES - PART 1

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WRITING MEDIA QUERIES - PART 2

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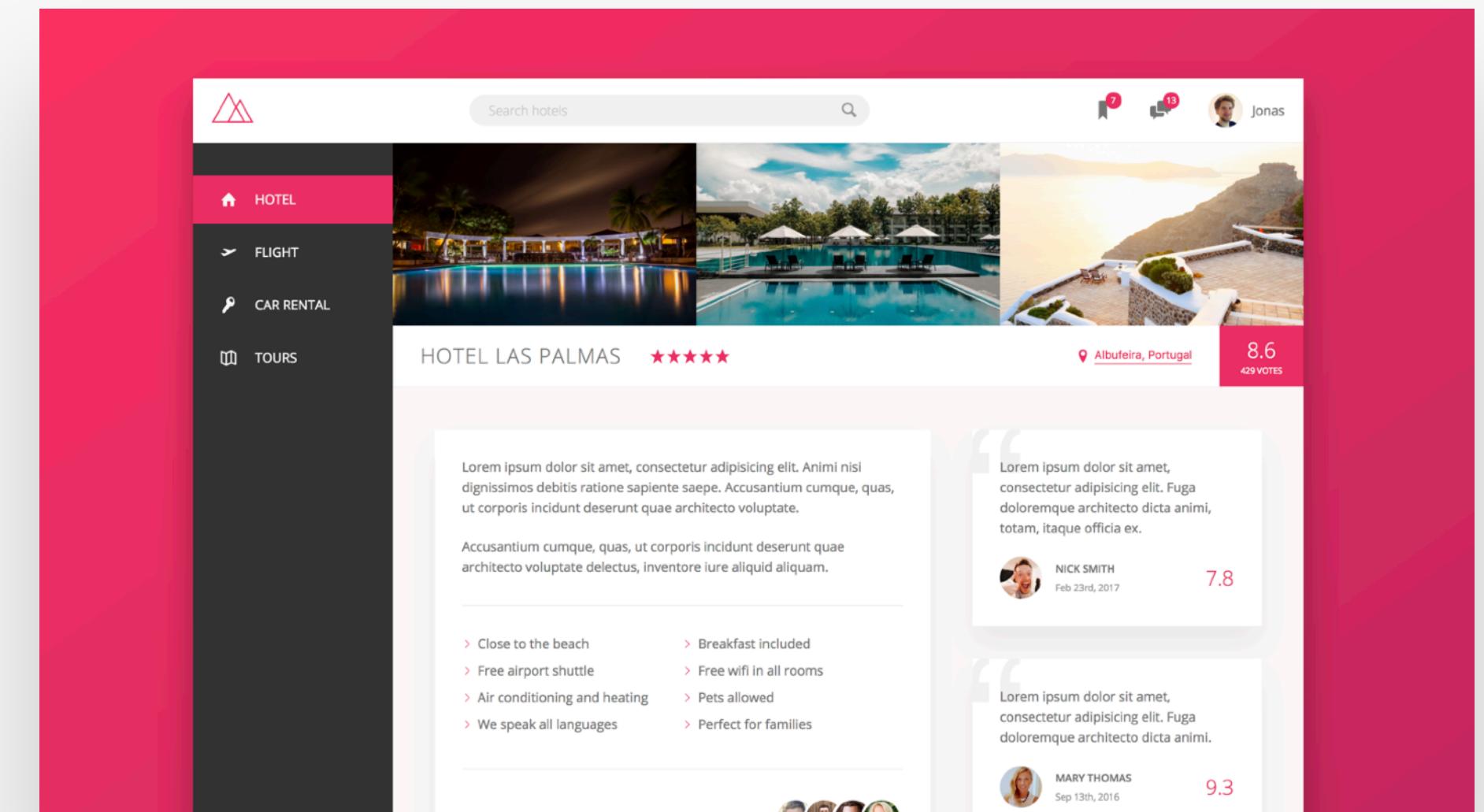
### TRILLO PROJECT - MASTER FLEXBOX!

## LECTURE

### WRAPPING UP THE TRILLO PROJECT: FINAL CONSIDERATIONS

# CHALLENGES, ANYONE?

1. Display some kind of user menu when hovering over the username in `.user-nav`;
2. Display a message menu when hovering over the chat icon in `.user-nav` (maybe like facebook);
3. Display a box with search suggestions as soon as the user starts typing in the search field;
4. Create a caption for the `.gallery__item` with a nice hover effect;
5. Make the page 100% responsive even for viewport sizes below 500px, maybe even responsive images.



# SECTION 8 – MASTER CSS GRID LAYOUTS

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TAKE YOUR CSS TO THE NEXT LEVEL!



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MASTER CSS GRID LAYOUTS

LECTURE

SECTION INTRO

**SECTION 9 –  
THAT'S IT, EVERYONE!**



# ADVANCED CSS AND SASS

TAKE YOUR CSS TO THE NEXT LEVEL!



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SECTION

THAT'S IT, EVERYONE!

LECTURE

SEE YOU NEXT TIME, CSS MASTER!

**END**