

SASS

Syntactically Awesome Style Sheets

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Agenda

1. What is SASS
2. Features
3. SASS and SCSS

WHAT IS SASS AND HOW DOES IT WORK?

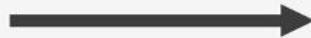
SASS

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 then 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

```
graph TD; Sass[Sass] --> SassSyntax[Sass syntax]; Sass --> SCSSSyntax[SCSS syntax];
```

Sass syntax

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

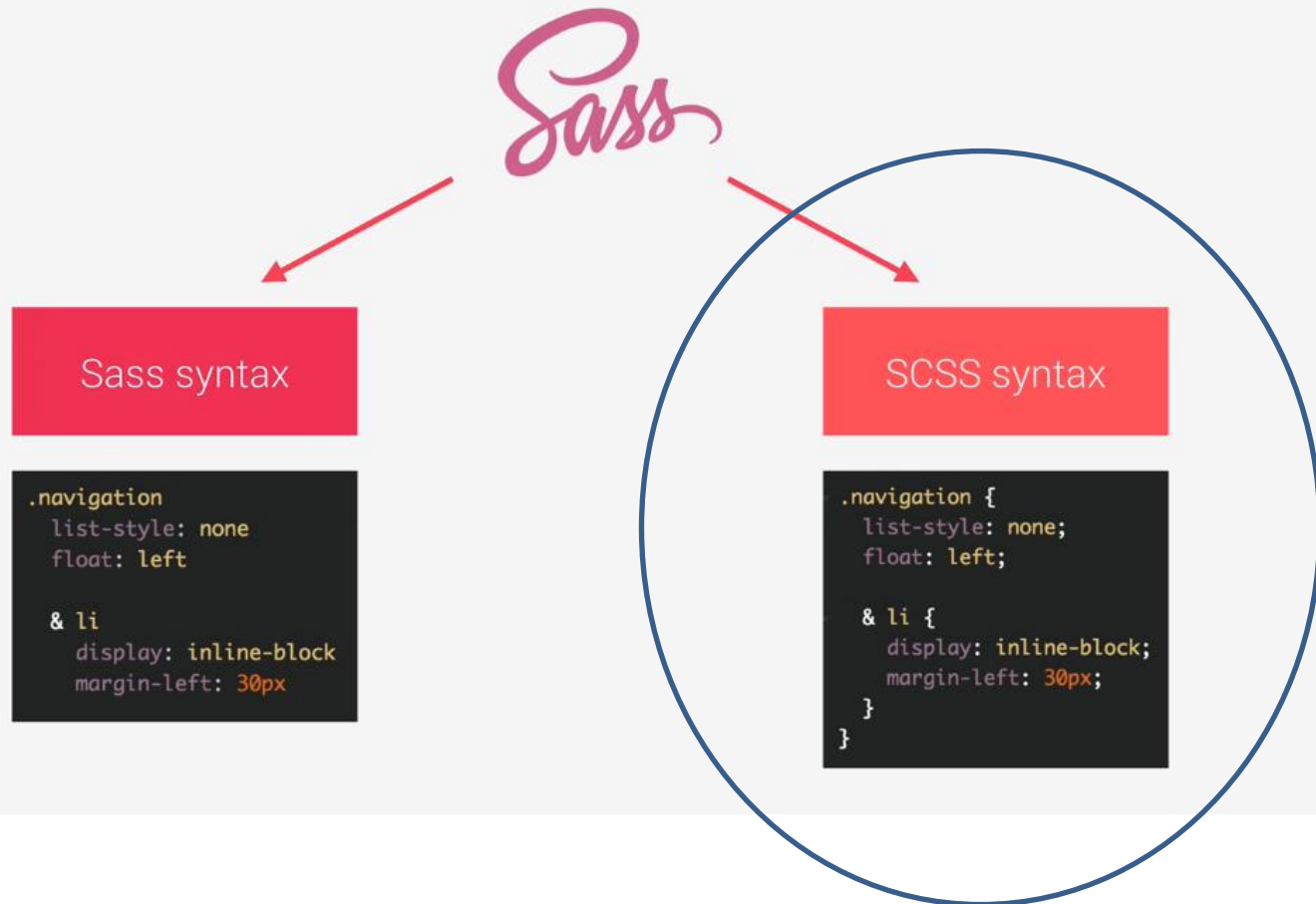
  & li
    display: inline-block
    margin-left: 30px
```

SCSS syntax

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

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

SASS AND SCSS: CLEARING UP THE CONFUSION



A BRIEF INTRODUCTION TO NPM AND THE NODE ECOSYSTEM

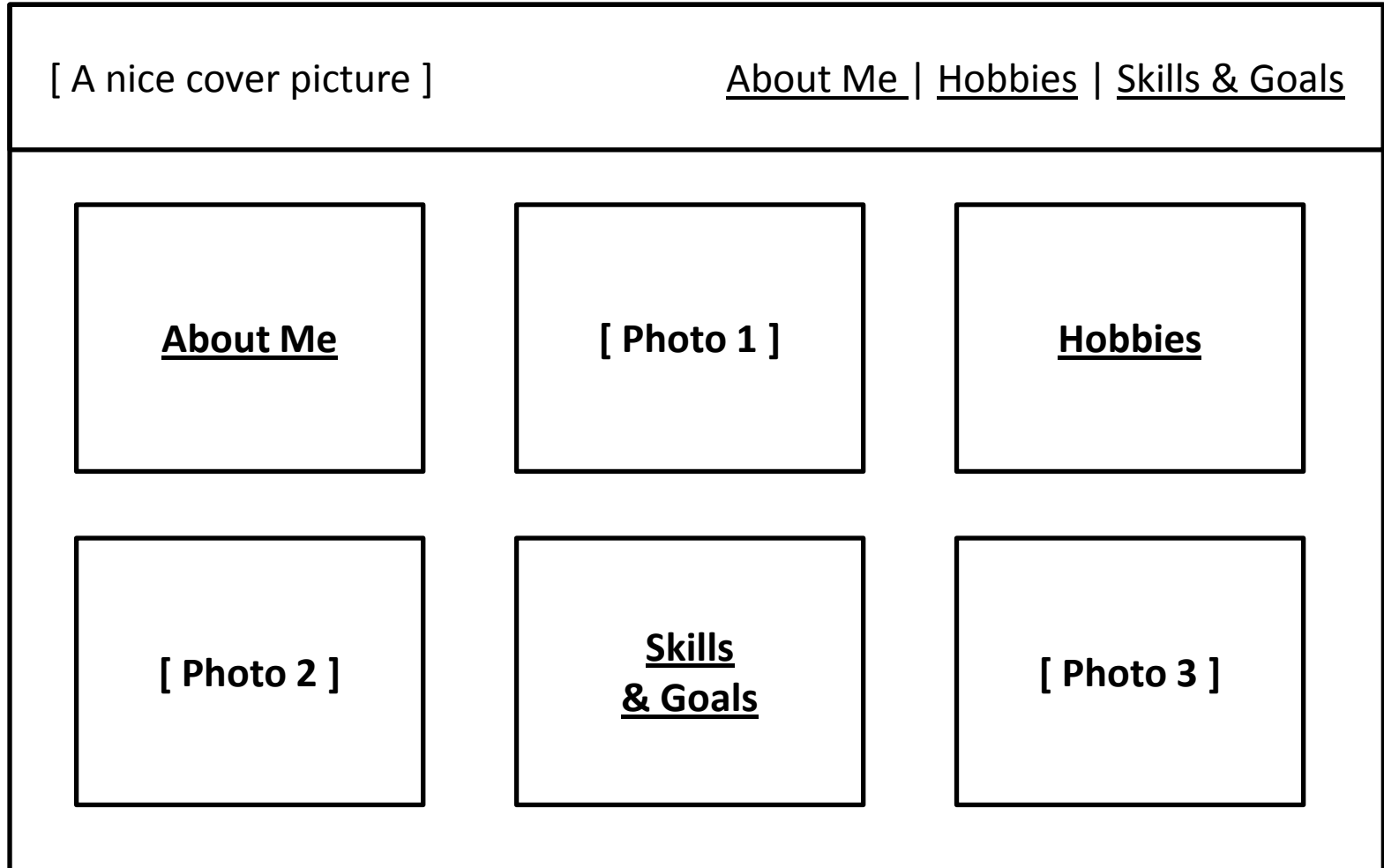


Allows developers to write and run JavaScript applications on the server. Developers started using node.js to also write tools to help them with **local web development**.

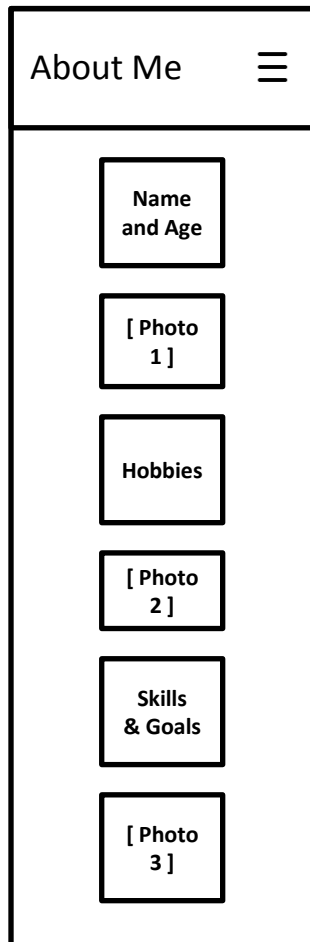


NPM is a simple command line interface that allows developers to **install and manage packages** on their local computers. There are all kinds of open-source **tools, libraries and frameworks** needed for modern development. Modern web development could simply not exist without a package manager.

Task: Create a responsive webpage about yourself with SASS and Flexbox or Grid



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[A nice cover picture]

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