JÖNKÖPING UNIVERSITY

School of Engineering

HANDLEBARS

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HANDLEBARS

What is it?

- A templating language implemented in JavaScript.

What is it used for?

- To generate dynamic HTML code.

```javascript
const humans = [
  {name: "Alice",  age: 10},
  {name: "Bob",    age: 15},
  {name: "Claire", age: 20}
]
```

```html
<ul>
  <li>Alice is 10 years.</li>
  <li>Bob is 15 years.</li>
  <li>Claire is 20 years.</li>
</ul>
```

TEMPLATES

A template is a description of some HTML code that can be generated.

Template

```
<h1>The Da Vinci Code</h1>
<div>Author: Dan Brown</div>
<div>Pages: 359</div>
```

Generated HTML code

```
<h1>The Da Vinci Code</h1>
<div>Author: Dan Brown</div>
<div>Pages: 359</div>
```

THE CONTEXT

Context

```
const book = {
    title: "The Da Vinci Code",
    author: "Dan Brown",
    pages: 359
}
```

Generated HTML code

```html
<h1>The Da Vinci Code</h1>
<div>Author: Dan Brown</div>
<div>Pages: 359</div>
```

Template

```html
<h1>{{title}}</h1>
<div>Author: {{author}}</div>
<div>Pages: {{pages}}</div>
```

Context

```
const book = {
    title: "Don't go there",
    author: "Bob West",
    pages: 120
}
```

Generated HTML code

```html
<h1>Don't go there</h1>
<div>Author: Bob West</div>
<div>Pages: 120</div>
```

CONTEXT WITH NESTED OBJECTS

Context

```
const book = {
  title: "The Da Vinci Code",
  author: {
    name: "Dan Brown"
  },
  pages: 359
}
```

Generated HTML code

```
<h1>The Da Vinci Code</h1>
<div>Author: Dan Brown</div>
<div>Pages: 359</div>
```

Template

```
<h1>{{title}}</h1>
<div>Author: {{author.name}}</div>
<div>Pages: {{pages}}</div>
```

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THE IF BLOCK HELPER

Context

```
const human = {
    name: "Alice",
    isOld: true
}
```
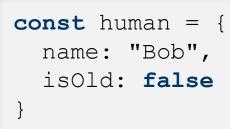
Template

```
<h1>{{name}}</h1>
{{#if isOld}}
    <p>{{name}} is old.</p>
{{else}}
    <p>{{name}} is young.</p>
{{/if}}
```

Generated HTML code

```
<h1>Alice</h1>
<p>Alice is old.</p>
```

Context

```
const human = {
    name: "Bob",
    isOld: false
}
```

Generated HTML code

```
<h1>Bob</h1>
<p>Bob is young.</p>
```

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THE EACH BLOCK HELPER

Context

```
const context = {
  humans: [
    {name: "Alice"},
    {name: "Bob"},
    {name: "Claire"}
  ]
}
```

Template

```
<h1>Humans</h1>
<ul>
{{#each humans}}
  <li>{{name}}</li>
{{/each}}
</ul>
```

Generated HTML code

```
<h1>Humans</h1>
<ul>
  <li>Alice</li>
  <li>Bob</li>
  <li>Claire</li>
</ul>
```

Can use `{{@index}}` to insert the index.

NESTING BLOCK HELPERS

Context

```
const context = {
humans: [
    {name: "Alice"},
    {name: "Bob"},
    {name: "Claire"}
  ]
}
```

Template

```
<h1>Humans</h1>
{{#if humans.length}}
  <ul>
  {{#each humans}}
    <li>{{name}}</li>
  {{/each}}
  </ul>
{{else}}
  <p>No humans ☹</p>
{{/if}}
```

Generated HTML code

```
<h1>Humans</h1>
<ul>
  <li>Alice</li>
  <li>Bob</li>
  <li>Claire</li>
</ul>
```

Context

```
const context = {
humans: []
}
```

Generated HTML code

```
<h1>Humans</h1>
<p>No humans ☹</p>
```

ESCAPING HTML CODE

Context

```
const human = {
  name: "Bob"
}
```

Template

{{name}}

Generated HTML code

Bob

Context

```
const human = {
  name: "<h1>Bob</h1>"
}
```

Template

{{{name}}}

Generated HTML code

<h1>Bob&lt/h1&gt

Generated HTML code

<h1>Bob</h1>