TEMPLATES & TYPOGRAPHY

Code 301

HTML TEMPLATING SYSTEMS

HTML TEMPLATING SYSTEM – DEFINTION

➤ Q: What is an HTML templating system?

➤ A: It is a template **processor** (executable code) together with a **template specification.**

HTML TEMPLATING SYSTEM – DEFINTION

➤ Q: What is an HTML templating system?

➤ A: It is a template **processor** (executable code) together with a **template specification.**

➤ The developer (that's you!) creates a template that must comply with the template spec. The template contains *common* data and metadata, and placeholders (*expressions*) for data.

Example template:

```
<div> Hello <strong> {{who}} </strong>,
      my name is {{name}}.
</div><br>
```

HTML TEMPLATING SYSTEM – DEFINTION

➤ Q: What is an HTML templating system?

➤ A: It is a template **processor** (executable code) together with a **template specification.**

  ➤ The developer (that's you!) creates a template that must comply with the template spec. The template contains *common* data and metadata, and placeholders (*expressions*) for data.

  ➤ The template processor maps (processes & combines) data (e.g., from a database) to the templates to form valid, user-visible web pages.

HTML TEMPLATING SYSTEM – DEFINTION

➤ Q: What is an HTML templating system?

➤ A: It is a template **processor** (executable code) together with a **template specification.**

  ➤ The developer (that's you!) creates a template that must comply with the template spec. The template contains *common* data and metadata, and placeholders (*expressions*) for data.

  ➤ The template processor maps (processes & combines) data (e.g., from a database) to the templates to form valid, user-visible web pages.

    ➤ You write JS code that uses the templating system.

    ➤ The templating system does the rest.

HTML TEMPLATES

➤ In practice:

➤ The **Handlebars** template system (`handlebars.js`) is very common. Used in BackboneJS, EmberJS, etc.

```
Hello {{who}}, my name is {{name}}.
```

➤ AngularJS uses a very similar syntax.

➤ Server side frameworks such as Ruby on Rails, Django, Express, and Java Spring have similar templating features.

UTILITY OF TEMPLATING SYSTEMS / HANDLEBARS.JS

➤ Q: Why use templating - how is a templating system useful?

➤ It **simplifies the task of creating dynamic content.**

➤ Handlebars provides placeholders (*expressions*) that are **filled in with data** when a handlebars.js template is 'compiled'.

    ➤ Good for the following tasks

        ➤ Load a significant amount/variety of data

        ➤ Add/update new items in lists

        ➤ Add complex content to a page

RECAP