# The Dawn of the Reusable Web: Diving into HTML5 Web Components

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#### Today, Web Developers Have 5 Problems

- 1. **Undescriptive Markup** It's hard to read and navigate <div> soup. Divs are generic containers that don't convey the nature of the data inside.
- 2. **Style and JS Conflicts** Have to write complex, prefixed selectors to avoid conflicts. No markup encapsulation means JS may accidentally manipulate as well.
- 3. **No Native Templates -** We use creative hacks to store HTML for templates. Today's approaches create confusion, lead to XSS vulnerabilities, or aren't truly inert.
- 4. **No Bundling -** There's no simple way to import a component with a single line of code. You have to reference the necessary JS and CSS in the right order and add proprietary markup.
- 5. **No Component Standard -** Switching between today's proprietary component solutions is painful. jQueryUI, KendoUI, Angular, etc. all have their own style.

#### The Solution: 4 New Core Technologies

- 1. Templates Inert, standards-based, reusable markup within <template>
- 2. Custom Elements Define your own HTML elements. Extend HTML to fit your app.
- 3. Shadow DOM Encapsulated markup and styling. Hide your markup from manipulation.
- 4. Imports Bundle HTML, JS, and CSS. Reference the component you need with a single line.

## Core Benefits of Native HTML5 Web Components

- 1. Descriptive Markup
- 2. Don't start at square zero
- 3. Easily replaced and upgraded
- 4. Fewer integration mistakes
- 5. Clearer interface and API

#### Recommended Resources

- HTML5 Web Component Fundamentals on Pluralsight: <a href="Pluralsight.com/author/cory-house">Pluralsight.com/author/cory-house</a>
- Webcomponents.org
- Component.kitchen
- HTML5Rocks.com