

**Web Components Study Notes Getting Started  
with Polymer by Arshak Khachatrian**

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# Chapter 1

## Web Components

Web Components is a new set of standards that we can use to create complex UI widgets and application pieces. One platform for creating Web Components is Polymer, developed by Google.

A Web Component contains elements that contain templates, styles, and logic, all encapsulated in that component. They have four specifications which are:

- Templates
- Shadow Dom
- Custom Elements
- HTML Imports

### 1.1 Templates

Templates are fragments of HTML for which the content is not loaded, until you get its content using Javascript without using AJAX, such content can be saved inside the `<template>` and retrieved later.

```
<template class="superman">
  <div class="boomshakalaka">
    <p class="title">This is the Superman Component</p>
  </div>
</template>
```

The element is pulled doing something as follows:

```
// NOTE: Using webapck
require( './superman.scss ');
// Load the template in the body
```

```
document.body.innerHTML = require("./superman.html") + document.body.innerHTML;

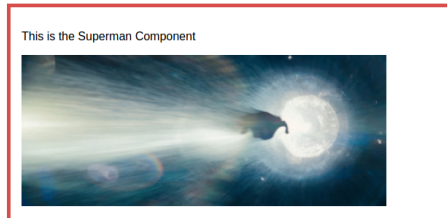
// Retrieve the markup
var supermanTemplate = document.querySelector('.superman');
var supermanContent = supermanTemplate.content;
// Add the img picture
var supermanPicture = document.createElement('img');
supermanPicture.classList.add('animated_superman');
supermanPicture.src = require("../assets/img/superman.png");
supermanPicture.width = 500;
supermanContent.querySelector('.boomshakalaka').appendChild(supermanPicture);
// Import it to the document, don't forget the 2nd argument
var result = document.importNode(supermanContent, true);
document.body.appendChild(result);
```

Of course a component wouldn't be complete with some styling attached to it:

```
.boomshakalaka {
  border: 5px solid rgba(200, 0, 0, 0.7);
  padding: 15px;
  margin: 15px;
}

.boomshakalaka .title {
  font-family: sans-serif;
}
```

To pull this we are using webpack. The original image I'm using is 1361x561, but we modify that property on load to get an the following:



## 1.2 Ways of adding templates

There are essentially four ways of adding templates

### 1.2.1 Hidden elements

Copy/Pasting it the hardcore way.

```

<div hidden data-template="superman">
  <div>
    <p>SuperMan Template</p>
    
  </div>
</div>

```

CONS: The browser loads unnecessary markup, and when pasted it wont load the images, video, audio.

### 1.2.2 Ajax all the things

CONS: Unnecessary noise. Pulling it by Ajax is downright a bad implementation. Somebody could inject bad code using Cross Site Script.

### 1.2.3 Use a local script template

```

<script data-template="superman" type="x-t
  <div>
    <p>SuperMan Template</p>
    
</script>

```

CONS: Unnecessary noise when working

with strings.

#### 1.2.4 Compiled templates

A Template engine handles it and you work with the string.

CONS: Unneccessary noise when working with strings.

### 1.3 Shadow DOM

The **audio**, **video**, **a**, **input** are de best examples to describe the functionality provided by the Shaodw DOM. Those elements are web components, and we don't see the internal implementation of these tags.

## Chapter 2

### The Second Chapter

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## 2.1 Second Section

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#### **2.1.1 Second SubSection**

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2 sub sub section

[Go to Top](#)

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$$\bar{x} = \frac{1}{n} \sum_{i=1}^n x_i = \frac{x_1 + x_2 + \dots + x_n}{n}$$

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$$\int_0^\infty e^{-\alpha x^2} dx = \frac{1}{2} \sqrt{\int_{-\infty}^\infty e^{-\alpha x^2} dx} \int_{-\infty}^\infty e^{-\alpha y^2} dy = \frac{1}{2} \sqrt{\frac{\pi}{\alpha}}$$

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$$\frac{\partial^2 \Phi}{\partial x^2} + \frac{\partial^2 \Phi}{\partial y^2} + \frac{\partial^2 \Phi}{\partial z^2} = \frac{1}{c^2} \frac{\partial^2 \Phi}{\partial t^2}$$

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## Chapter 3

### The Third Chapter

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### 3.1 Third Section

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#### **3.1.1 Third SubSection**

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3 sub sub section

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$$a\sqrt[n]{b} = \sqrt[n]{a^n b}$$

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## Chapter 4

### The Fourth Chapter

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#### 4.1 Fourth Section

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## Chapter 5

### The Fifth Chapter

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## **5.1 Fifth Section**

## Chapter 6

### The Sixth Chapter

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## **6.1 Sixth Section**

## Chapter 7

### The Seventh Chapter

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### **7.1 Seventh Section**

## Chapter 8

### The Eighth Chapter

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length

of words should match the language.

### **8.1 Eighth Section**

## Chapter 9

### The Ninth Chapter

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length

of words should match the language.

## **9.1 Ninth Section**

## Chapter 10

### The Tenth Chapter

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length



of words should match the language.

#### **10.1 Tenth Section**

## Chapter 11

### The Eleventh Chapter

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length

of words should match the language.

### **11.1 Eleventh Section**

## Chapter 12

### The Twelfth Chapter

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length

of words should match the language.

## **12.1 Twelfth Section**

## Chapter 13

### The Thirteenth Chapter

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length

of words should match the language.

### **13.1 Thirteenth Section**

## Chapter 14

### The Fourteenth Chapter

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length



of words should match the language.

#### **14.1 Fourteenth Section**

## Chapter 15

### The Fifthtenth Chapter

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length

of words should match the language.

### **15.1 Fifteenth Section**