WEBCOMPONENTS

INTRODUCTION

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ABOUT ME

- Scrum Master
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- Instructor
- Speaker



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AGENDA

Intro

Specifications

Status

Demo

Wrap-up

INTRO

INTRO

- New W3C Standard
- Allows reuse of components
- The standard is divided into four specifications:
 - Templates
 - Shadow DOM
 - Custom Elements
 - Imports
- A Web Component uses well-known technologies:
 - HTML
 - CSS
 - JavaScript

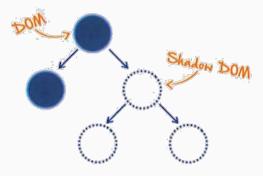
SPECIFICATIONS

TEMPLATES

- Defines HTML parts to be reused any number of times
- Define reusable parts directly inside of HTML documents
- Is defined by the new <template> tag
- Can be added to the DOM using JavaScript
- Unlimited number of templates possible

SHADOW DOM

- Create an independent sub-DOM
- Not accessable from "outside" of the sub-DOM
- Avoids DOM collisions between components
- No side-effects of CSS or JavaScript between components
- Can be added to the DOM using JavaScript
- Unlimited number of Shadow DOMs possible



CUSTOM ELEMENTS

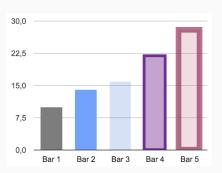
- Connect template and shadow DOM
- Define reusable components
- Create own tags to produce readable HTML
 - → own tags need to include a hyphen
- Apply styles inside of the custom element
- Use JavaScript for interaction
- Throws lifecycle events: create, attach, detach
 - 1 <google-hangout-button />



IMPORTS

- Outsourcing of HTML parts
- Create own HTML files for components (higher reusability)
- Add components to HTML documents using imports

```
1 link rel="import" href="google-chart.html">
2 <google-chart type="column" data="chart.json" />
```



STATUS

STATUS

	Chrome	Opera	Firfox	Safari	IE/Edge
Templates	V	V	V	V	V
Shadow DOM	V	/	_	_	X
Custom Elements	V	V	_	X	X
Imports	V	•	_	X	X

Polyfills

- 1 bower install webcomponentsjs
- 2 npm install webcomponents.js

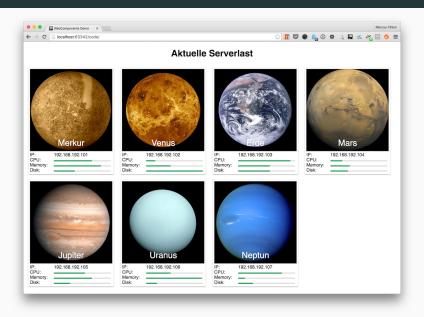
Libraries

- Polymer
- X-Tag
- Bosonic

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DEMO

SCREENSHOT OF DEMO APPLICATION



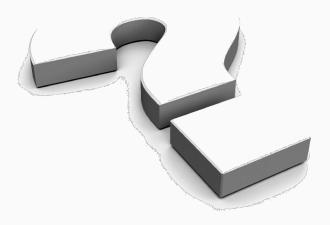


CONCLUSION

Web Components...

- are declarative and reuseable
- are combinable and extensible
- are interoperational DOM = common demoninator
- allow encapsulation scoping
- increase productivity and accessibility
- are standard
- support thinking in components

QUESTIONS





thank you note for every language by woodleywonderworks

