

Introduction to polymer project



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“when presented with an abundance of choice, you can feel increasingly unsure of whether yours is the right one”

- Addy Osmani

Compare Search terms ▾

angular.js

Search term

react.js

Search term

ember.js

Search term

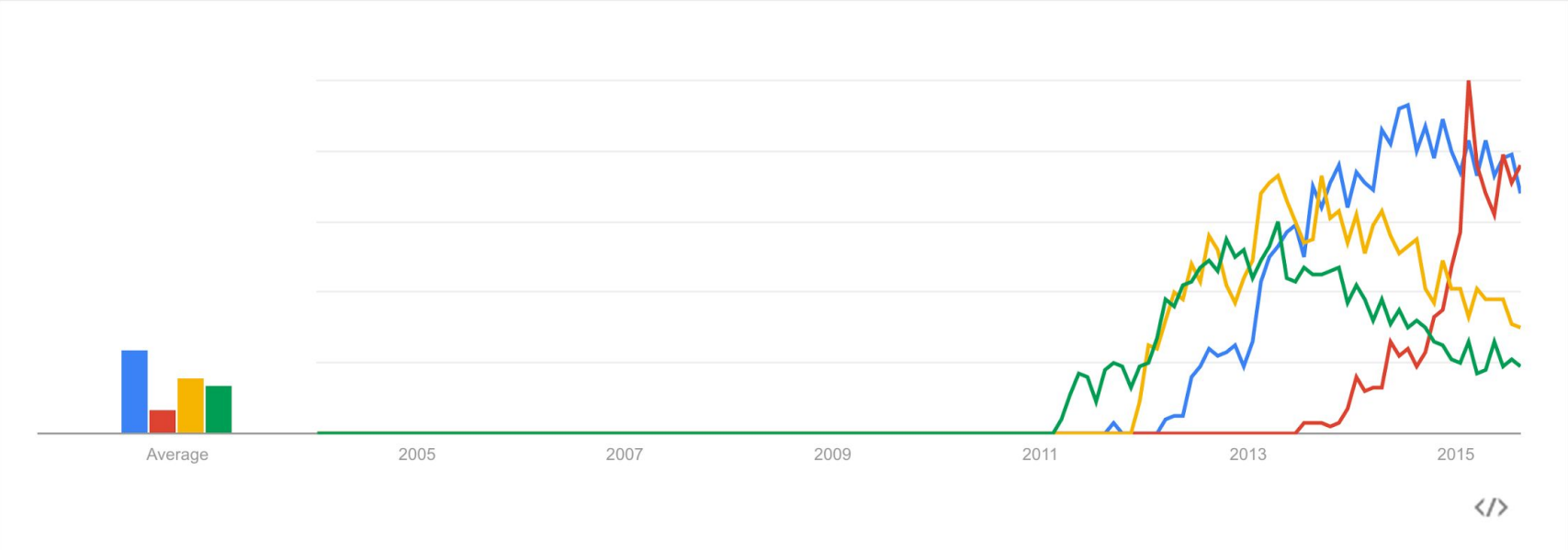
knockout.js

Search term

+ Add term

Interest over time ?

☒ News headlines ? ☐ Forecast ?





Web components merupakan standard w3c yang merupakan gabungan dari beberapa low-level API.

Template

native client-side templating

Shadow DOM

scoping, composition

Custom Elements

define new HTML/DOM

HTML Imports

loading web components

API Web components sudah di desain agar kita dapat membuat **library di atas standar yang sudah ada.**

So what is Polymer?

**Polymer is not
a framework**



The diagram illustrates the layers of web architecture. It consists of four horizontal layers. The top layer, labeled 'Applications', is composed of eight teal-colored rounded rectangles. The second layer, labeled 'Existing Frameworks', is a single teal-colored rounded rectangle. The third layer, labeled 'Web Components built with Polymer (or not)', is composed of eight magenta-colored rounded rectangles. The bottom layer, labeled 'Web Platform', is a single teal-colored rounded rectangle. The labels are centered within their respective layers.

Applications

Existing Frameworks

Web Components built with Polymer (or not)

Web Platform

Is it **ready**?

<https://translate.google.com/community>

<http://projector.tensorflow.org>

Chrome Dev Editor

<https://gaming.youtube.com>



Over 1.3M pages



300+ Google projects



Ok Google, play music

Free, curated radio for what you're doing, how you feel, or what you want to hear.

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SUMMER 2015




Be one of the first to know when
YouTube Gaming goes live.

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The background features three large, overlapping geometric shapes. On the left is a blue structure composed of several triangles and rectangles, some with lighter blue highlights. In the center is a pink structure, also made of geometric facets, with some darker pink shading. On the right is a purple structure, similarly faceted, with some darker purple highlights. Below the blue structure is a small, solid dark blue circle.

**READY FOR
PRODUCTION**



Let's build
an element!

element-baru.html

```
<link rel="import" href="../../polymer/polymer.html">

<dom-module id="element-baru">
  <template>
  </template>
  <script>
    Polymer({
      is: 'element-baru'
    });
  </script>
</dom-module>
```

element-baru.html

```
<link rel="import" href="../../polymer/polymer.html">
```

```
<dom-module id="element-baru">
```

```
  <template>
```

```
</template>
```

```
  <script>
```

```
    Polymer({
```

```
      is: 'element-baru'
```

```
    });
```

```
</script>
```

```
</dom-module>
```



**Import all of your
dependencies.
HTML Imports**

element-baru.html

```
<link rel="import" href="../../polymer/polymer.html">
```

```
<dom-module id="element-baru">
```

```
  <template>
```

```
</template>
```

```
<script>
```

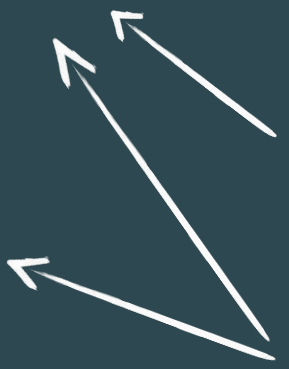
```
  Polymer({
```

```
    is: 'element-baru'
```

```
  });
```

```
</script>
```

```
</dom-module>
```



A container for your
element definition.
Custom Element

element-baru.html

```
<link rel="import" href="../../polymer/polymer.html">
```

```
<dom-module id="alert-banner">
```

```
  <template>
```

```
  </template>
```

```
  <script>
```

```
    Polymer({
```

```
      is: 'alert-banner'
```

```
    });
```

```
  </script>
```

```
</dom-module>
```



Local DOM is the DOM
an elements is *in charge of*
creating and managing.
Template and Shadow DOM

Elements

Building blocks for a better web

“There’s an element for that!”

1.0

Fe

**Iron
Elements**

Polymer core elements

1.0

Md

**Paper
Elements**

UI components following the
material design guidelines

1.0

Fe

Iron
Elements

Polymer core elements

1.0

Md

Paper
Elements

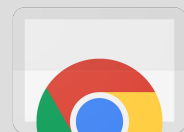
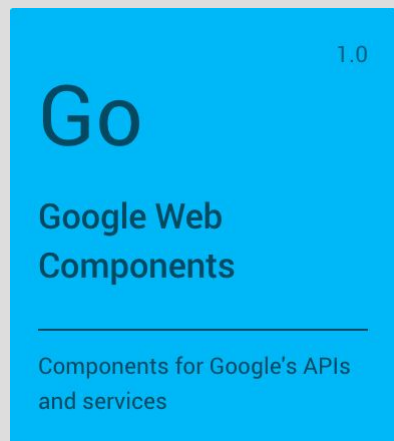
UI components following the
material design guidelines

1.0

Go

Google Web
Components

Components for Google's APIs
and services



1.0

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Elements

Polymer core elements

1.0

Md

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Google Web
Components

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and services

1.0

Pt

Platinum
Elements

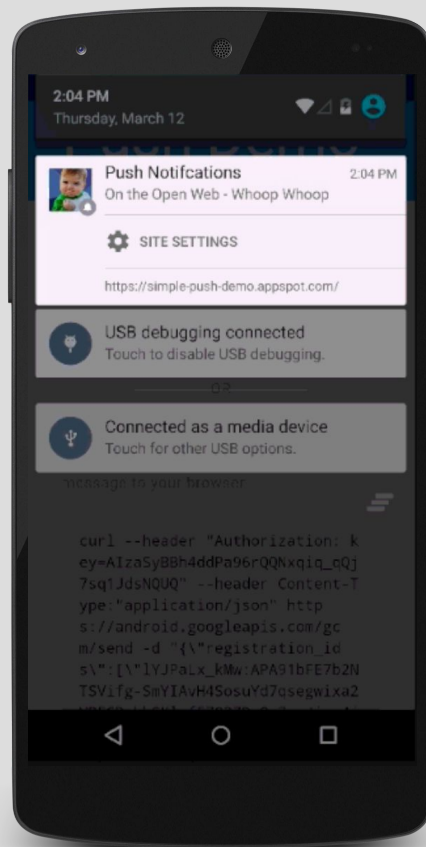
Push notifications, offline
caching, and more.

Pt

Platinum Elements

Push notifications, offline
caching, and more.

1.0



1.0

Fe

Iron Elements

Polymer core elements

1.0

Md

Paper Elements

UI components following the
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Go

Google Web Components

Components for Google's APIs
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Pt

Platinum Elements

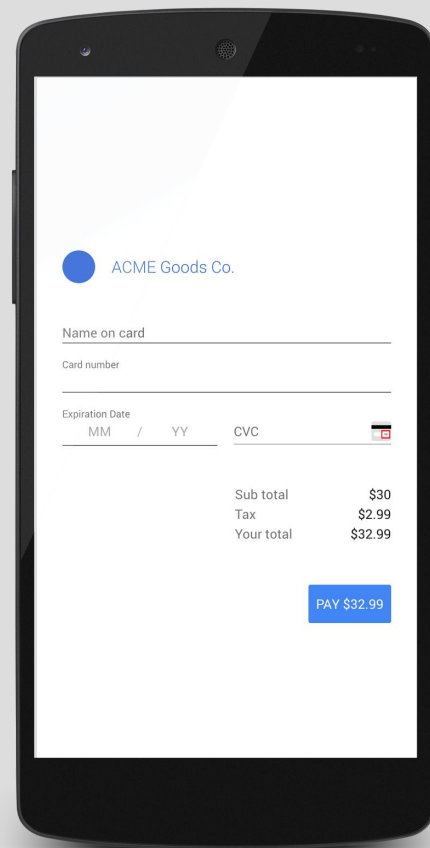
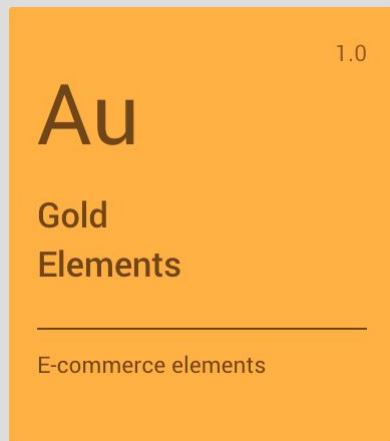
Push notifications, offline
caching, and more.

1.0

Au

Gold Elements

E-commerce elements



1.0

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1.0

Au

Gold
Elements

E-commerce elements

elements.polymer-project.org

“There’s an element for that!”

Applications

Combining elements into something great



Polymer Starter Kit

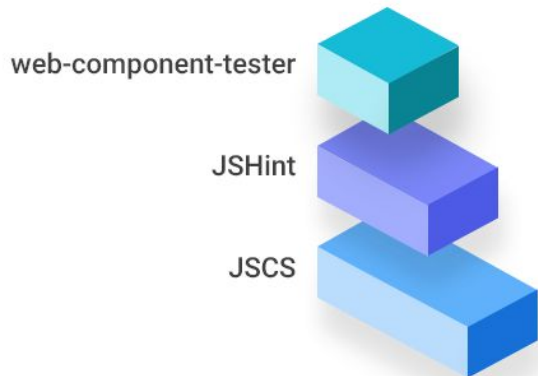
Production-ising Apps



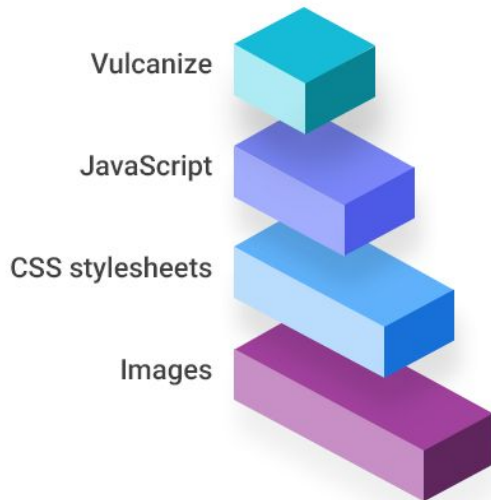
Build process out of the box



QUALITY & TESTING



MINIFICATION



OFFLINE



CROSS-DEVICE RELOAD



Polymer is lean, and production ready

Create or reuse elements in any app

Starter Kit gets you up and running

☒ Web Components polyfills

☒ Polymer!

☒ An HTML file

bit.ly/polycasts

polymer-project.org

Thank You!



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