



FREE eBook

LEARNING polymer-1.0

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#polymer-

1.0

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About

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Chapter 1: Getting started with polymer-1.0

Remarks

- The example above shows bare minimum structure of a custom(Polymer) element using local dom.
- A Polymer element can also be created entirely using `script` tag, but that is not part of this topic.
- Even though `style` tag is not a part of bare minimum structure it has been kept there just for understanding purpose.
- Also, `script` tag can be used in both imperative and declarative fashion i.e user can have a separate `js` file with atleast above written code and then refer it in element.
- Please note that `id` of `dom-module` and `is` property of `Polymer` constructor should always be same.

Versions

Version	Release Date
v1.6.0	2016-06-29
v1.5.0	2016-05-31
v1.4.0	2016-05-18
v1.0.0	2015-05-27

Examples

Element structure

Defining an element with no content.

```
<dom-module id="empty-element">
  <template>
    <style>
    </style>
  </template>

  <script>
    Polymer({
      is: 'empty-element',
    });
  </script>
</dom-module>
```

And then you can use the new element in any other pages.

```
<!DOCTYPE html>
<html>
  <head>
    <!-- Using lite version as Polymer does not require Polyfill for Shadow Dom -->
    <script src="path/to/bower_components/webcomponentsjs/webcomponents-
lite.min.js"></script>
    <!-- Importing the element assuming file name is also empty-element.html -->
    <link rel="import" href="empty-element.html">
  </head>

  <body>
    <empty-element></empty-element>
  </body>
</html>
```

Read [Getting started with polymer-1.0](https://riptutorial.com/polymer-1-0/topic/4759/getting-started-with-polymer-1-0) online: <https://riptutorial.com/polymer-1-0/topic/4759/getting-started-with-polymer-1-0>

Chapter 2: Looping, the template dom-repeat.

Examples

A basic list

This is a basic polymer element that show a list of names.

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

<dom-module id="basic-list">
  <template>
    <style>
    </style>

    <div>Name's list</div>
    <template is="dom-repeat" items="{{list}}">
      <div>{{item.lastName}}, {{item.firstName}}</div>
    </template >

  </template>

  <script>
    Polymer({
      is: 'basic-list',

      properties:{
        list:{
          type: Array,
          value: function(){
            let list = [
              {firstName: "Alice", lastName: "Boarque"},
              {firstNName: "Carlos, lastName: "Dutra"}
            ]

            return list
          },
        },
      },
    });
  </script>
</dom-module>
```

Specifying an element in a list

By default, accessing an individual item in a template dom-repeat loop is by calling `{{item}}`. Passing in an `as=` attribute to template will allow you to switch out the default `{{item}}` syntax for something that is more customized to the module you are working with. In this case, we want to grab the first and last name of a person, so we pass in `as="person"` to template. We can now access the names using `{{person}}`.

```
<dom-module id="basic-list">
  <template>
```

```
<template is="dom-repeat" items={{list}} as="person">
  <div>{{person.lastName}}, {{person.firstName}}</div>
</template>
</template>
</dom-module>
```

Read **Looping, the template dom-repeat**. online: <https://riptutorial.com/polymer-1-0/topic/6269/looping--the-template-dom-repeat>

Credits

S. No	Chapters	Contributors
1	Getting started with polymer-1.0	a1626 , Community
2	Looping, the template dom-repeat.	Jp_ , shortdiv