PolyGerrit Preview

Gerrit User Summit 2015
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Disclaimer

- I am not Andy Bons
PolyGerrit: New Polymer UI
Why a UI Refresh?

● Current UI shows lots of info
  ○ Can feel a little “designed by committee”

● Never had real UX design
Why Not GWT?

● Can’t get UX designers to work with it
  ○ “Just give us some mockups” is not how they work
● We’re getting sick of the build process
● Temptation to tightly couple UI and server
What Is Polymer?

- Web Components

```html
<dom-module id="mytag">
  <style>
    p { text-decoration: blink; }
  </style>
  <template>
    <p>This content goes in &lt;mytag&gt;</p>
  </template>
</dom-module>
```

https://www.polymer-project.org/1.0/docs/start/quick-tour.html
What Is Polymer?

- Data Bindings

```html
<dom-module id="name-tag">
  <template>
    This is <b>{{owner}}</b>'s name-tag element.
  </template>
  <script>
    Polymer({
      is: "name-tag",
      ready: function() {
        this.owner = "Daniel";
      }
    });
  </script>
</dom-module>
```

https://www.polymer-project.org/1.0/docs/start/quick-tour.html
What Is Polymer?

- Polyfills
  - Fill in rough parts of the API landscape
  - Over time, more functionality becomes native
Why Polymer?

- Composable
- Static
- Standards!
  - Native support
  - Performance
Why Polymer?

- Maps closely to DOM

```html
<html lang="en">
<head>...</head>
<body>
  <gr-app constrained>
    <header role="banner" class="style-scope gr-app">...</header>
    <main class="style-scope gr-app">
      <template is="dom-if" class="style-scope gr-app">...</template>
    </main>
    <gr-change-view class="style-scope gr-app">
      <iron-ajax id="detailXHR" handle-as="text" debounce-duration="300"
        class="style-scope gr-change-view" hidden></iron-ajax>
      <iron-ajax id="commentsXHR" handle-as="text" debounce-duration="300"
        class="style-scope gr-change-view" hidden></iron-ajax>
      <div class="container style-scope gr-change-view">
        <h2 class="style-scope gr-change-view">Fix Incorrect owner group
          matching behaviour for creating projects</h2>
        <div class="changeInfo style-scope gr-change-view">...</div>
        <div class="summary style-scope gr-change-view">...</div>
        <gr-file-list class="style-scope gr-change-view">...</gr-file-list>
        <gr-messages-list class="style-scope gr-change-view">...</gr-messages-list>
      </div>
    </gr-change-view>
  </gr-app>
</body>
</html>
```
Why Polymer?

- Easier to recruit FE talent
  - No 10-foot pole required
Demo Time!
Coming Soon
Risks

- Core team is Java/GWT
- Standards are not finalized
  - Dropping IE9
- Preserve existing plugins
Tentative Roadmap

- Initial commit during hackathon this week
- 2015Q4: Live on googlesource.com
- Slightly later: real users
- 2016:
  - Feature parity with existing UI
  - Kill GWT
- …: UX improvements & features
Discussion