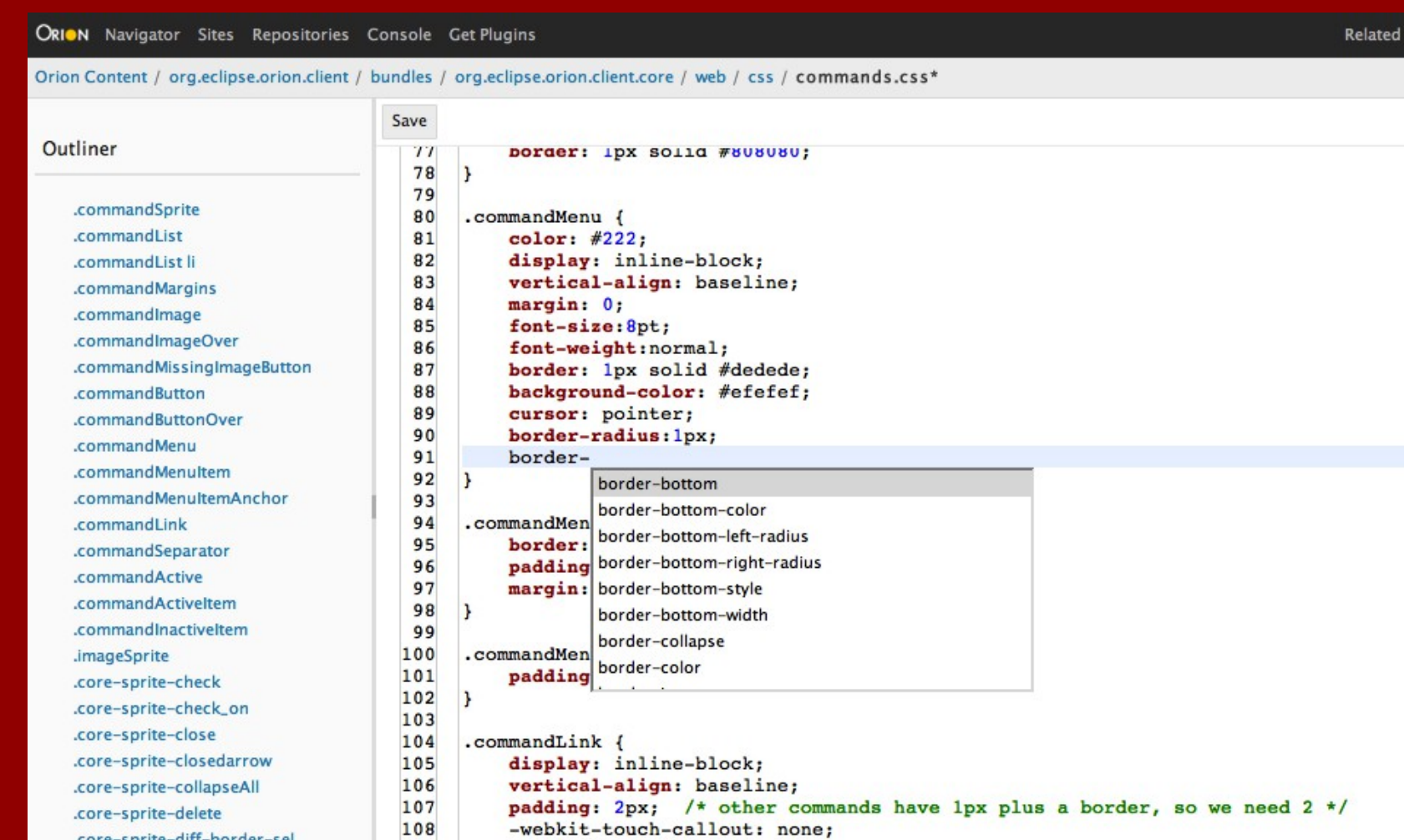




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#oscon



Orion: Development Tools for the Web, on the Web




Wayne Beaton, The Eclipse Foundation
Susan McCourt, IBM

Demo coming...want to follow along?

- orionhub.org



tools for the web on the web



```
function setUsername (registry, dropdown){  
  var userService = registry.getService("orion.core.user")  
  var authenticationIds = [];  
  var authServices = registry.getServiceReferences("orion.core.auth")
```




Log in

username

password

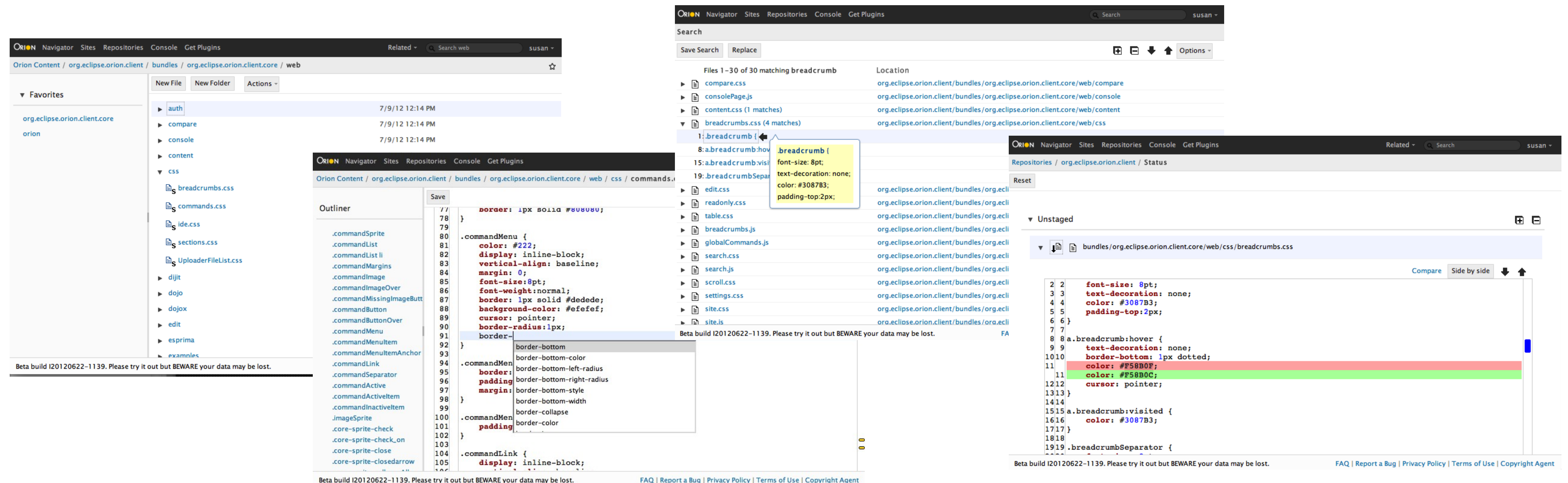
[Forgot password?](#) [Sign in](#)

New to Orion? [Register](#)

Log in with:   

Software development in a browser

- Not like a desktop IDE (the web is the platform)
- Promotes a page-oriented web experience
- Workflows across a set of linked web pages



Core coding activities + extensions

- Platform provides basic tasks for web development
 - HTML, CSS, JS editing in a performant, robust editor
 - Version control (git) support
 - Global search, site hosting, unit testing
- Linking in additional features
 - Outward bound links via navigation bar, related pages, navigator
 - Inward bound links via URI Templates for invoking Orion functions
- Extend capabilities of existing pages
 - Editor capabilities, content manipulation, alternate editors
- Extend core capabilities
 - Content hosting (S3, WebDAV, HTML5 local files)
 - Authentication strategies

Orion 0.5 demo

- Project setup, navigation, editing HTML, CSS, JS
- Site hosting
- Using plugins
- Version control (git) support

Plugins: Extending the system

- Users install plugins from other domains
 - Pages request necessary micro-services from plugin/service registry
 - Plugins loaded as needed (non-visual iframes)
 - Don't call us, we'll call you (today)
 - Authentication, licensing (1.0)
- UI extension points
 - Narrowly defined contributions
 - Semantic in nature (for flexibility in changing our UI)
- Core extension points
 - Alternate file systems
 - Authentication strategies

Plugins: Micro Services Examples

- Declarative behavior - “Related” links menu

```
window.onload = function() {  
    var provider = new eclipse.PluginProvider();  
    provider.registerServiceProvider("orion.page.link.related", null, {  
        nameKey: "Git Status",  
        id: "eclipse.git.status2",  
        tooltipKey: "Go to Git Status",  
        nls: "git/nls/gitmessages",  
        validationProperties: [{  
            source: "StatusLocation|Clone:StatusLocation",  
            variableName: "GitStatusLocation"  
        }],  
        uriTemplate: "{OrionHome}/git/git-status2.html#{GitStatusLocation}"  
    });  
}
```

Plugins: Micro Services Examples

- Asynchronous javascript implementation – i18n validator

```
provider.registerServiceProvider("orion.edit.validator", {
  checkSyntax: function(title, contents) {
    var problems = [];
    // a bunch of implementation detail finding and pushing problems...
    problems.push({
      reason: "Non externalized string literal " + strings[j][0],
      line: i + 1,
      character: strings[j].index + 1,
      end: strings[j].index + strings[j][0].length,
      severity: "warning" });
  }
  return { problems: problems };
}}, {
  contentType: ["application/javascript"]
});
```


Consuming and Integrating Orion

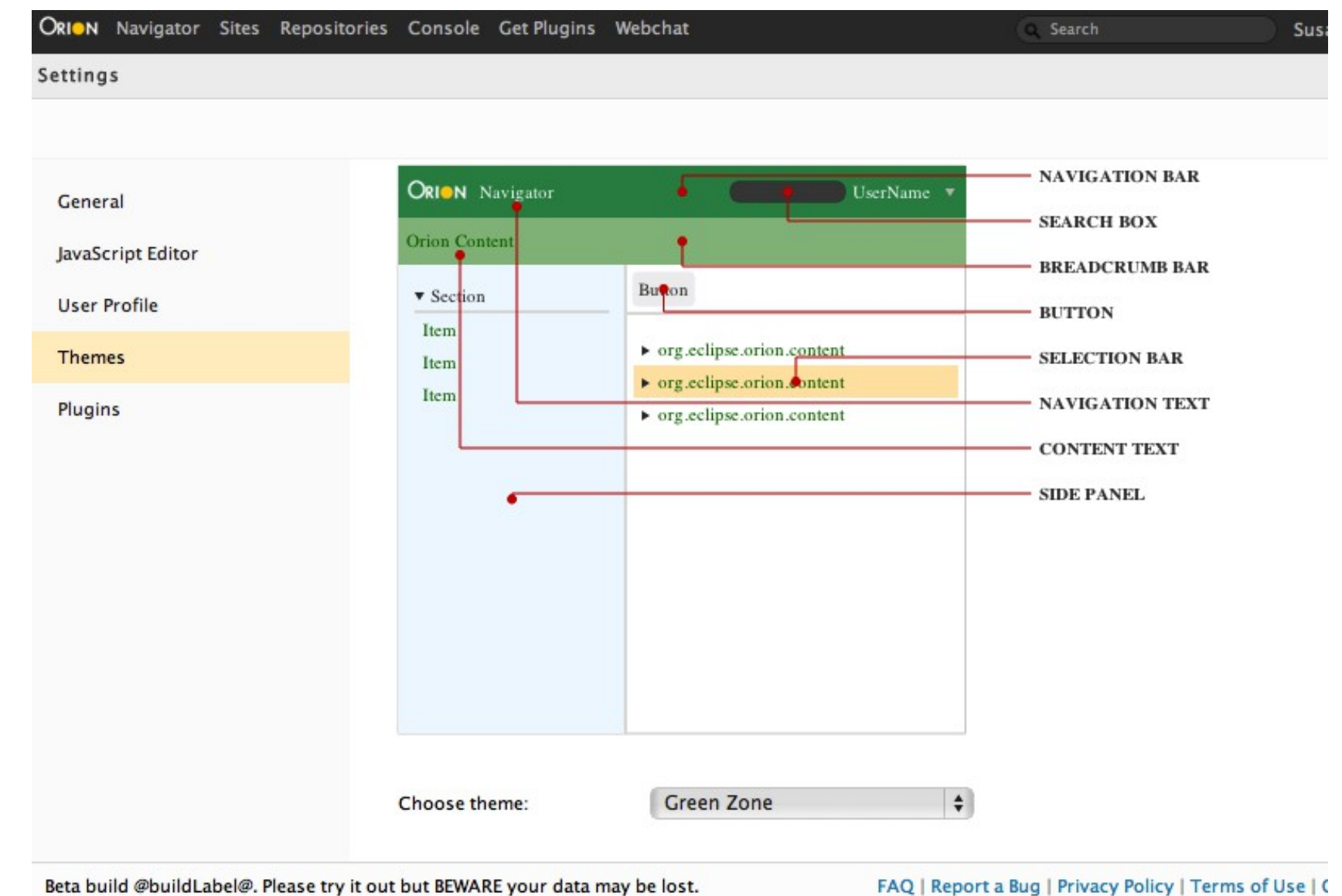
(Wayne – existing slideware about different consumers and integration strategies)

Contributing to Orion

(Wayne slideware for communication channels, bugs, patches, IP)

Coming in Orion 1.0

- Robustness
 - Performance, consumability of components, code quality, API
 - Finish up accessibility, i18n
- Key missing features (not committed yet)
 - Theme Builder (LESS)
 - Offline support (investigating)
 - Less framework usage
 - Consumable (and relocatable) Navigator



Learning more

- orionhub.org - Kick the tires
- [@orionhub](https://twitter.com/orionhub) on twitter
- <http://wiki.eclipse.org/Orion>
 - Downloading builds, git repos, contributions
 - Architecture and programmer doc
 - User doc
- planetorion.org – news and articles