Front-End Tools and Workflows

twitter.com/NikkitaFTW
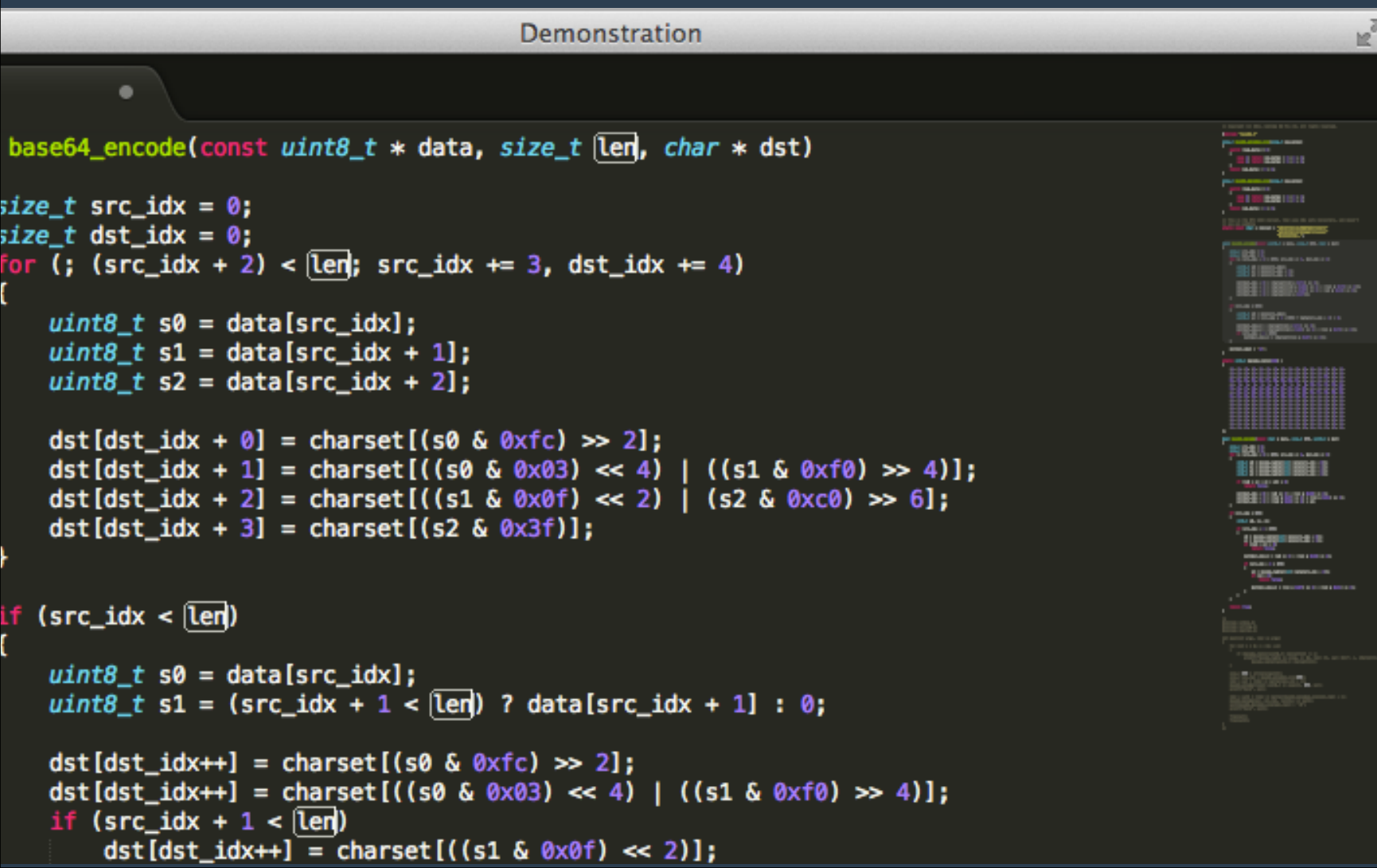
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Editors

Sublime Text 3

- Cross Platform
- Multiple Selections
- Completely Customisable
- Package Control


```c
base64_encode(const uint8_t * data, size_t len, char * dst)

size_t src_idx = 0;
size_t dst_idx = 0;
for (; (src_idx + 2) < len; src_idx += 3, dst_idx += 4)
{
    uint8_t s0 = data[src_idx];
    uint8_t s1 = data[src_idx + 1];
    uint8_t s2 = data[src_idx + 2];

    dst[dst_idx + 0] = charset[(s0 & 0xfc) >> 2];
    dst[dst_idx + 1] = charset[((s0 & 0x03) << 4) | ((s1 & 0xf0) >> 4)];
    dst[dst_idx + 2] = charset[((s1 & 0x0f) << 2) | (s2 & 0xc0) >> 6];
    dst[dst_idx + 3] = charset[(s2 & 0x3f)];
}

if (src_idx < len)
{
    uint8_t s0 = data[src_idx];
    uint8_t s1 = (src_idx + 1 < len) ? data[src_idx + 1] : 0;

    dst[dst_idx++] = charset[(s0 & 0xfc) >> 2];
    dst[dst_idx++] = charset[((s0 & 0x03) << 4) | ((s1 & 0xf0) >> 4)];
    if (src_idx + 1 < len)
        dst[dst_idx++] = charset[((s1 & 0x0f) << 2)];
```

Demonstration

Package Control

Amazing community behind it

STATS

Packages

2,805

1,851 ST2/3	2,741 WIN
345 ST3	2,769 OS X
525 ST2	2,742 LINUX

PACKAGES

577

LABELS

Users

2.69M

| 1.45M WIN |
| 792K OS X |
| 452K LINUX |
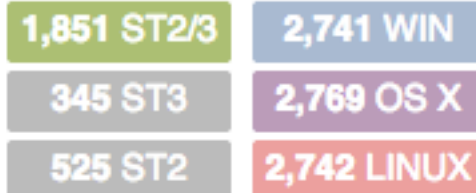
USERS

2,012

AUTHORS

Activity Yesterday

82K

| 43K WIN |
| 25K OS X |
| 13K LINUX |

PACKAGE INSTALLS

213K

USER ACTIONS

116.2GB

JSON SERVED

Atom
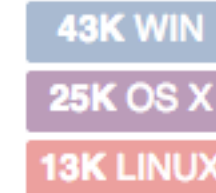
- Built By Github
- Completely built with web technologies
- Node Integration
- Hackable from top to bottom
- Themes and Extensions by the team and community

```
config.cson                    ×
1   'welcome':
2     'showOnStartup': false
3   'editor':
4     'fontSize': 15
5     'showIndentGuide': true
```
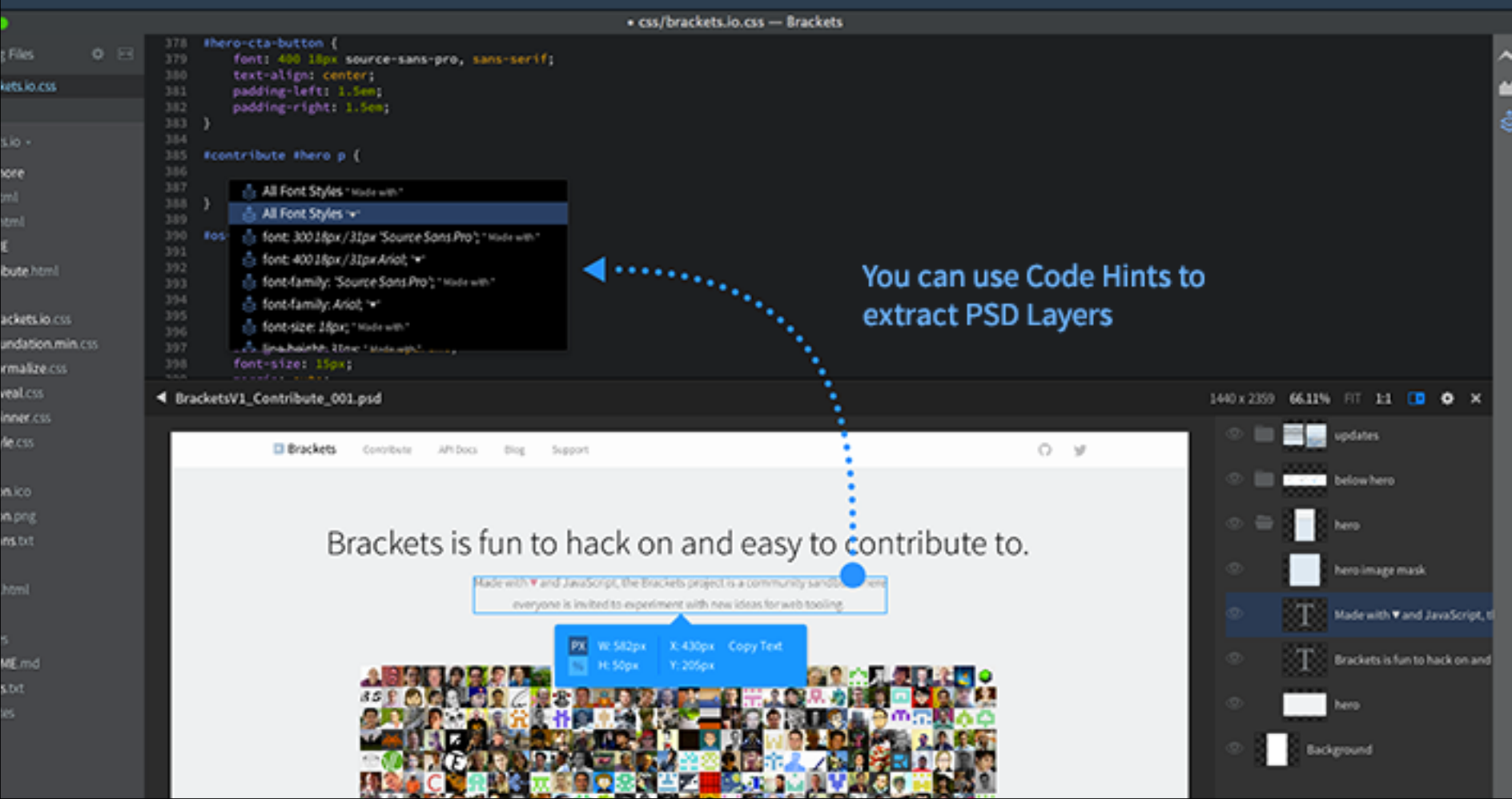
× Elements Resources Network Sources Timeline Profiles A

```
    true  style= font-size: 13px; display: flex
    ▶<div class="gutter" callattachhooks="true
    ▼<div class="scroll-view">
       ▶<div class="overlayer" style="height: 5
       display: block;">…</div>
       ▼<div class="lines" style="height: 570px
       0px; padding-bottom: 0px; top: 0px;">
```

```
de-gyp              config.cson              ×
m
npile-cache     1   'welcome':
                2     'showOnStartup': false
                3   'editor':
kages           4     'fontSize': 13
rage            5     'softWrapAtPreferredLineLength': true
                6     'showIndentGuide': true
_Store          7   'core':
                8     'destroyEmptyPanes': true
fig.cson        9     'disabledPackages': [
es.less         10       'autocomplete-plus'
                11       'css-color-highlighting'
                12       'emmet'
                13     ]
                14   'spell-check':
                15     'grammars': [
                16       'text.plain'
                17       'source.gfm'
                18       'text.git-commit'
```

Brackets

- Built by adobe
- Inline Editors
- Live Preview
- Preprocessor support
- Extract Extension that gets information from PSD files.

You can use Code Hints to extract PSD Layers

Brackets is fun to hack on and easy to contribute to.

Scaffolding & asset management tools

NPM

- Comes bundled with NodeJS
- Package manager for Javascript
- Manage Code dependencies
- Download dependencies straight to your project or install them on your machine.
- More than 100,000 packages on the registry.

Bower

npm install -g bower

- Package manager for the web.
- Optimised for front end by getting only one version of the required library of choice.
- You can define the version of the package you want.

Yeoman

npm install -g yo

- Combination of Yo , a build tool and a package manager
- Yo scaffolds a new application adding all the tasks you need the build tool to do.
- The build tool builds, previews and tests your project.
- The package manager takes care of the dependencies in your project,
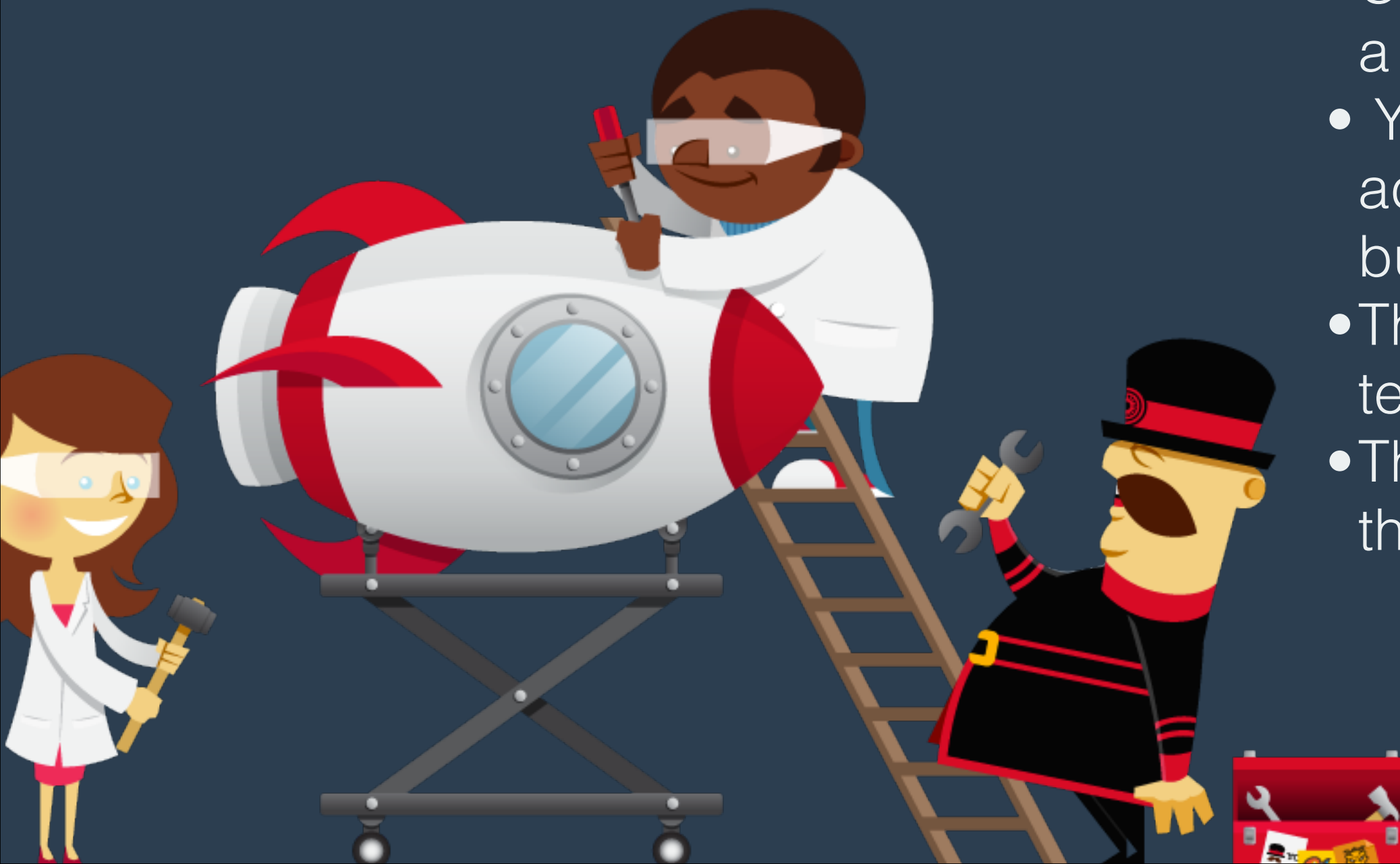
Coding

Languages

SASS

- CSS Preprocessor
- Use variables in CSS
- Mixins
- Nesting
- Import files without any addition HTTP requests

CSS Preprocessors

- LESS
- Stylus
- Myth
- etc..

CoffeeScript

`npm install -g coffe-script`

- Easy on the eyes
- String Interpolation
- Readable Javascript Output

Website Frameworks

Bootstrap

- Supports preprocessors
- Default styles for HTML elements
- Common Javascript plugins like sliders and tooltips already bundled in
- Mobile first approach
- Available at a CDN

Foundation

- Core written in SASS
- CLI Tool
- Rails Friendly
- Mobile First
- Semantic

Other Frameworks

- Material UI
- Semantic UI
- Gumby Framework
- Pure.css

App
Frameworks

Foundation

`npm install -g foundation-cli`

- Angular Powered
- Also powered by SASS
- New CLI Tool
- Component Driven
- Motion UI

Ionic

`npm install -g ionic`

- Native Feel
- Powered by Angular
- Hybrid App Framework
- CLI Tool

ionic

Javascript Frameworks

Angular

- Built at Google
- HTML on Steroids
- Two-way data-binding
- Unit Test Ready
- Declarative Code

Ember

`npm install -g ember-cli`

- Handelbars Integrated
- Components
- Data Binding
- Routing

Meteor

`curl https://install.meteor.com/ | sh`

- Works on both Front End and Backend
- Integrates easily with MongoDB
- Browser and Mobile
- Package System
- Live Updates
- CLI Tool

React

- Built by Facebook
- Framework that lets you focus on the view and create the UI
- Virtual DOM

React

Asset
Preparing

Grunt

`npm install -g grunt-cli`

- It allows for automation on your workflow
- All the tasks you may need are probably already packaged as plugins that you can freely use
- Really big community

GRUNT

Gulp

npm install -g gulp

- It allows for automation on your workflow
- Open source packages to use on your project
- Easy to learn

Gulp

Software

- Codekit
- Prepos
- Sassquatch
- Smaller
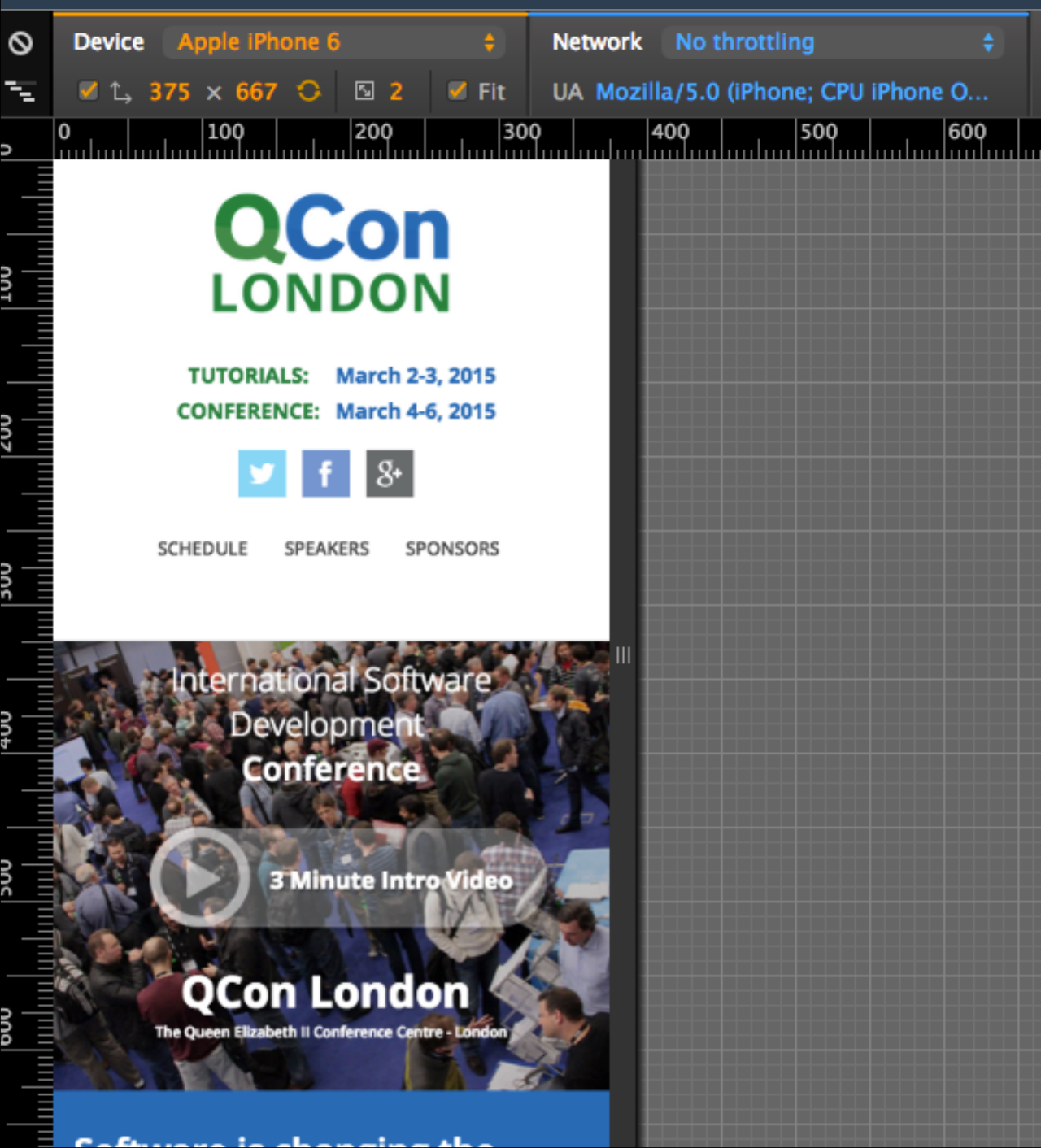- ImageOptim

Prepros

Sassquatch

Browser
Features

Chrome Dev Tools

- Element Inspector
- Console
- Timelines
- Network
- You can extend and create Chrome Extensions to improve it

Chrome Mobile Tools

- Test in various devices and their resolutions
- Set you custom resolution
- Test the touch response on your website
- Test different network states

That's it
Folks