

Web project

Sergiy Kukharyev

1. IDE

Some IDE's

1. Brackets

<http://brackets.io/>

2. Atom

<https://atom.io/>

3. Notepad++

<https://notepad-plus-plus.org/>

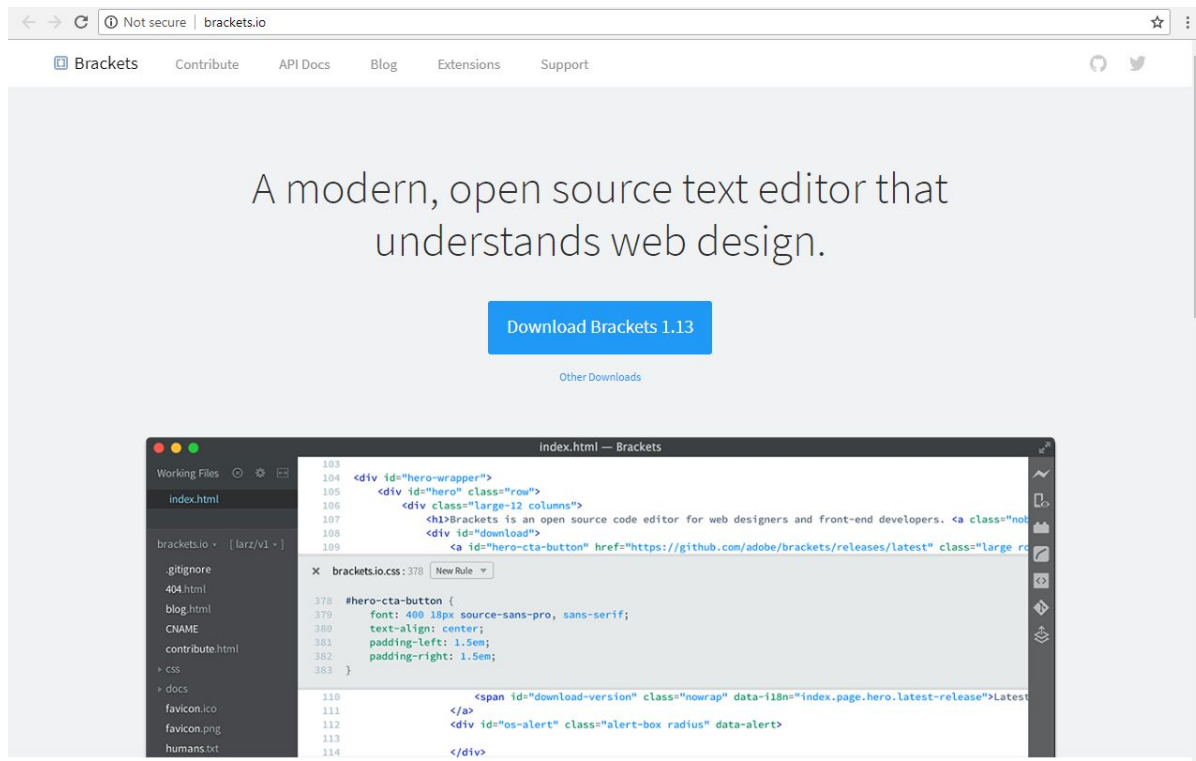
4. Sublime

<https://www.sublimetext.com/>

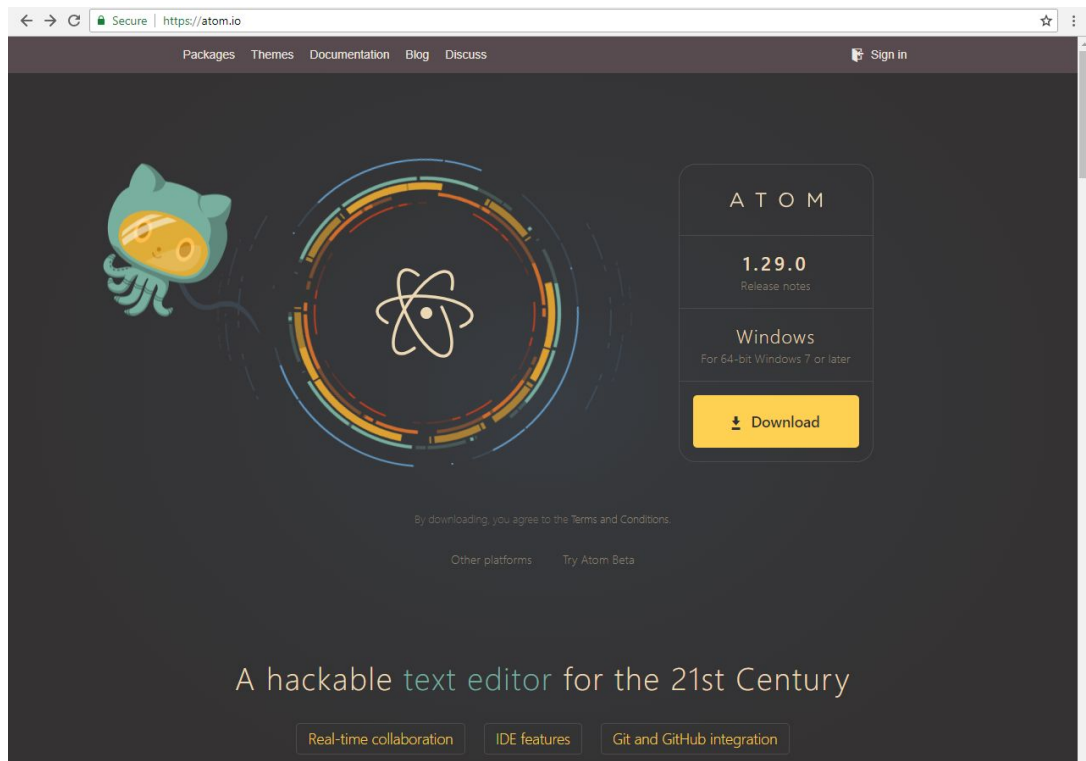
5. Webstorm

<https://www.jetbrains.com/webstorm/>

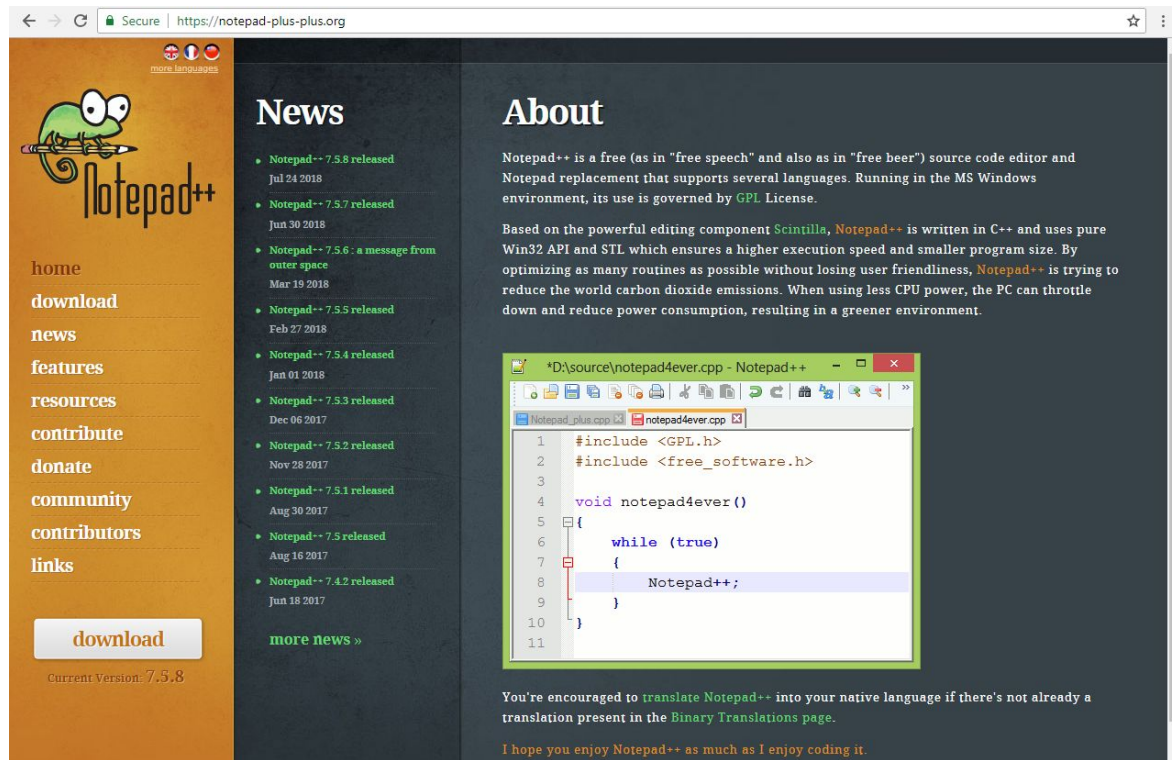
1. IDE: Brackets



2. IDE: Atom



3. IDE: Notepad++

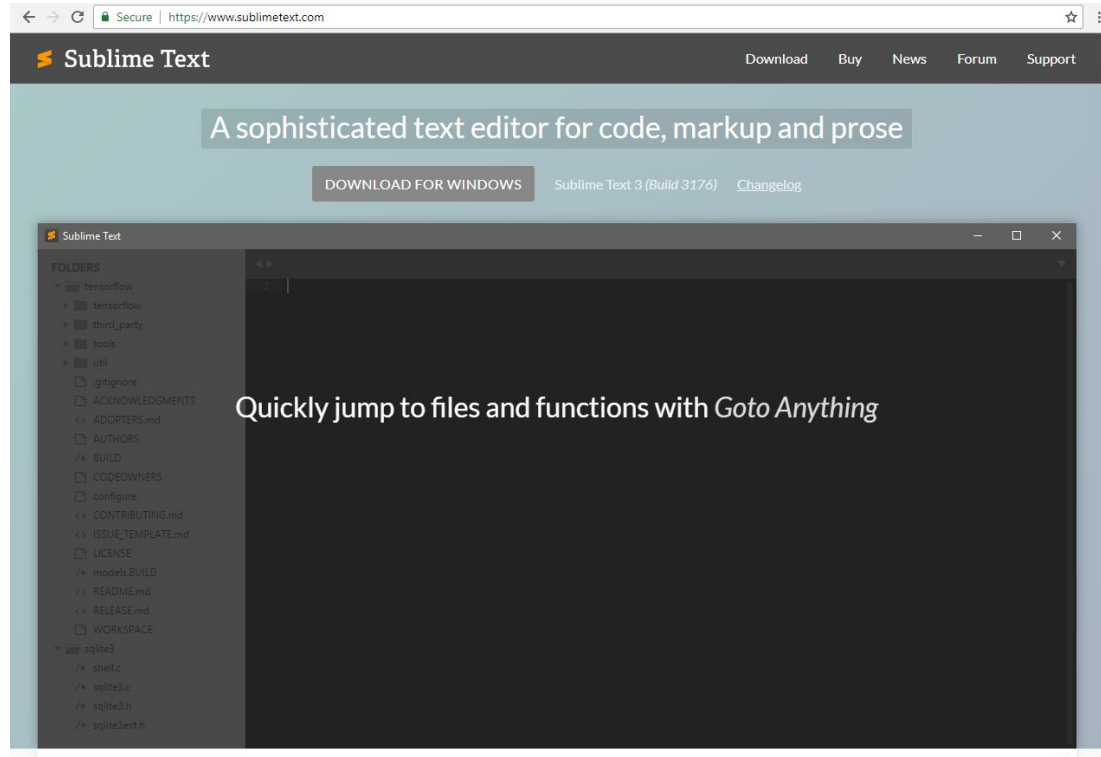


The screenshot shows the Notepad++ website at <https://notepad-plus-plus.org>. The website has a dark theme with an orange sidebar on the left. The sidebar contains a navigation menu with links: home, download, news, features, resources, contribute, donate, community, contributors, and links. At the bottom of the sidebar is a 'download' button and the text 'Current Version: 7.5.8'. The main content area is divided into two columns. The left column is titled 'News' and lists several release announcements for Notepad++ versions 7.5.8, 7.5.7, 7.5.6, 7.5.5, 7.5.4, 7.5.3, 7.5.2, 7.5.1, 7.5, and 7.4.2, each with a release date. The right column is titled 'About' and contains text describing Notepad++ as a free source code editor and its GPL license. Below the 'About' text is a screenshot of a Notepad++ window editing a C++ file named 'notepad4ever.cpp'. The code in the window is as follows:

```
*D\source\notepad4ever.cpp - Notepad++
1  #include <GPL.h>
2  #include <free_software.h>
3
4  void notepad4ever ()
5  {
6      while (true)
7      {
8          Notepad++;
9      }
10 }
11
```

Below the code screenshot, the 'About' section continues with text encouraging users to translate Notepad++ into their native language and expressing the creator's hope that users enjoy it as much as they enjoy coding it.

4. IDE: Notepad++



5. IDE: Webstorm

The screenshot shows the JetBrains WebStorm website. The browser's address bar displays the URL `https://www.jetbrains.com/webstorm/`. The website has a dark navigation bar with the JetBrains logo and links for Tools, Languages, Solutions, Support, and Store. Below this, a secondary navigation bar includes 'WebStorm', 'What's New', 'Features', 'Resources', 'Buy', and a 'Download' button. The main content area features a large, abstract blue and cyan geometric shape. Overlaid on this shape is the 'WebStorm' logo (a small 'WS' icon followed by the text 'WebStorm') and the tagline 'The smartest JavaScript IDE'. Below the tagline, it says 'Powerful IDE for modern JavaScript development'. A prominent black 'DOWNLOAD' button is centered, with the text 'Free 30-day trial' underneath it. In the bottom left corner, there is a black box labeled 'FEATURES'. On the bottom right, there is a dark rectangular area containing a cookie consent notice and a terminal window snippet. The cookie notice states that cookies and IP addresses are used for delivery, improvement, and personalization, and provides links to the Privacy Policy and Terms of Use. The terminal snippet shows a prompt `~ root#`.

JetBrains s.r.o. [CZ] | <https://www.jetbrains.com/webstorm/>

Tools Languages Solutions Support Store

WebStorm What's New Features Resources Buy Download

WebStorm
The smartest JavaScript IDE
Powerful IDE for modern JavaScript development

DOWNLOAD
Free 30-day trial

FEATURES

Cookies and IP addresses allow us to deliver and improve our web content and to provide you with a personalized experience. Our website uses cookies and collects your IP address for these purposes.

| JetBrains may use cookies and my IP address to collect individual statistics and to provide me with personalized offers and ads subject to the Privacy Policy and the Terms of Use. JetBrains may use third-party services for this purpose. I can revoke my consent at any time by visiting the [Opt-Out page](#).
| [Y]es, I agree [N]o, thanks
|

~ root#

2. Brackets Extensions

Some Brackets Extensions

1. Emmet
<https://github.com/emmetio/brackets-emmet>
2. Beautify
<https://github.com/drewhamlett/brackets-beautify>
3. Autoprefixer
<https://github.com/mikaeljorhult/brackets-autoprefixer>
4. W3C Validation
<https://github.com/cfjedimaster/brackets-w3cvalidation>
5. Git
<https://github.com/zaggino/brackets-git>
6. File icons
<https://github.com/ivogabe/Brackets-Icons>
7. Indent Guides
<https://github.com/lkcampbell/brackets-indent-guides>

Brackets Emmet Extension

```
html>(head>(meta[charset=utf8]+title))+body>(div.header+div.main*5+div.footer)
```

press tab

```
<html>
<head>
  <meta charset="utf8">
  <title></title>
</head>
<body>
  <div class="header"></div>
  <div class="main"></div>
  <div class="main"></div>
  <div class="main"></div>
  <div class="main"></div>
  <div class="main"></div>
  <div class="footer"></div>
</body>
</html>
```

Brackets Autoprefixer Extension

```
@media (min-resolution: 2dppx) {  
  .image {  
    background-image: url(image@2x.png);  
  }  
}
```

```
@media (-webkit-min-device-pixel-ratio: 2),  
  (-o-min-device-pixel-ratio: 2/1),  
  (min-resolution: 2dppx) {  
  .image {  
    background-image: url(image@2x.png);  
  }  
}
```

Brackets Git Extension

The screenshot shows the Brackets IDE interface with the README.md file open. The left sidebar displays the file explorer with the following files: .travis.yml, CHANGELOG.md, CONTRIBUTING.md, FILE ADDED.test, Gruntfile.js, LICENSE, main.js, package.json, README.md (selected), requirejs-config.json, and strings.js. The main editor area shows the README.md content, which includes sections for the main panel and history panel. The Git extension interface is visible at the bottom, showing a list of commits and their details.

README.md - Brackets

File Edit Find View Navigate Debug Help

Working Files

brackets-git [master v]

73
74 ![main](screenshots/main.jpg)
75 *Main panel of Brackets Git*
76
77 ![history](screenshots/history.jpg)
78 *History panel of Brackets Git*
79

Commit

2 months ago by Martin Zagora Merge pull request #599 from cheesypoof/history-spacing 11403d0

2 months ago by Increment Improve history viewer spacing 8a98f93

2 months ago by Martin Zagora Merge pull request #598 from FezVrasta/ftp-push-button 03ae666

2 months ago by FezVrasta fix for #499 3cb19cd

2 months ago by Martin Zagora Version 0.13.20 0b6ec8e

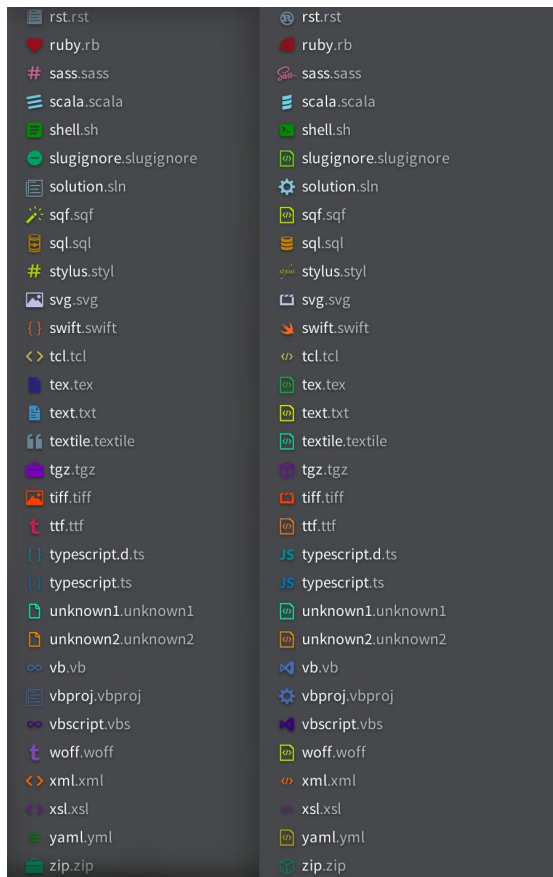
2 months ago by Martin Zagora History viewer is now paged to load at most 25 files in one go. 92951f8

2 months ago by Martin Zagora Do not show deleted remote as default. 995094e

Line 79, Column 1 — 95 Lines

INS Markdown Spaces: 4

Brackets Icons Extension



Brackets Indent Guides Extension

```
96 // CodeMirror overlay code
97 var indentGuidesOverlay = {
98   token: function (stream, state) {
99     var char    = "",
100         colNum  = 0,
101         spaceUnits = 0,
102         isTabStart = false;
103
104     char = stream.next();
105     colNum = stream.column();
106
107     // Check for "hide first guide" preference
108     if ((hideFirst) && (colNum === 0)) {
109       return null;
110     }
111
112     if (char === "\t") {
113       return GUIDE_CLASS;
114     }
115
116     if (char !== " ") {
117       stream.skipToEnd();
118       return null;
119     }
120
121     spaceUnits = Editor.getSpaceUnits();
122     isTabStart = (colNum % spaceUnits) ? false : true;
123
124     if ((char === " ") && (isTabStart)) {
125       return GUIDE_CLASS;
126     } else {
127       return null;
128     }
129   },
130   flattenSpans: false
131 };
132
```

```
96 // CodeMirror overlay code
97 var indentGuidesOverlay = {
98   token: function (stream, state) {
99     var char    = "",
100         colNum  = 0,
101         spaceUnits = 0,
102         isTabStart = false;
103
104     char = stream.next();
105     colNum = stream.column();
106
107     // Check for "hide first guide" preference
108     if ((hideFirst) && (colNum === 0)) {
109       return null;
110     }
111
112     if (char === "\t") {
113       return GUIDE_CLASS;
114     }
115
116     if (char !== " ") {
117       stream.skipToEnd();
118       return null;
119     }
120
121     spaceUnits = Editor.getSpaceUnits();
122     isTabStart = (colNum % spaceUnits) ? false : true;
123
124     if ((char === " ") && (isTabStart)) {
125       return GUIDE_CLASS;
126     } else {
127       return null;
128     }
129   },
130   flattenSpans: false
131 };
132
```

Sublime Text Package Control

← → ↻ 🔒 Secure | https://packagecontrol.io/installation ☆ ⋮

Package Control

INSTALLATION

Simple

The simplest method of installation is through the Sublime Text console. The console is accessed via the `ctrl+`` shortcut or the `View > Show Console` menu. Once open, paste the appropriate Python code for your version of Sublime Text into the console.

SUBLIME TEXT 3

SUBLIME TEXT 2

```
import urllib.request,os,hashlib; h =
'6f4c264a24d933ce70df5dedcf1dcaee' +
'ebe013ee18cced0ef93d5f746d80ef60'; pf = 'Package
Control.sublime-package'; ipp =
sublime.installed_packages_path();
urllib.request.install_opener(
urllib.request.build_opener(
urllib.request.ProxyHandler()) ); by =
urllib.request.urlopen( 'http://packagecontrol.io/' +
pf.replace(' ', '%20')).read(); dh =
hashlib.sha256(by).hexdigest(); print('Error validating
download (got %s instead of %s), please try manual
install' % (dh, h)) if dh != h else open(os.path.join(
ipp, pf), 'wb' ).write(by)
```

This code creates the Installed Packages folder for you (if necessary), and then downloads the `Package Control.sublime-package` into it. The download will be done over HTTP instead of HTTPS due to Python standard library limitations, however the file will be validated using SHA-256.

Search

Usage Instructions ▾

Manual

If for some reason the console installation instructions do not work for you (such as having a proxy on your network), perform the following steps to manually install Package Control:

1. Click the `Preferences > Browse Packages...` menu
2. Browse up a folder and then into the `Installed Packages/` folder
3. Download `Package Control.sublime-package` and copy it into the `Installed Packages/` directory
4. Restart Sublime Text

Installation

Browse

Search

Docs


News

Stats

About

Say Thanks

SUPPORTED VIA

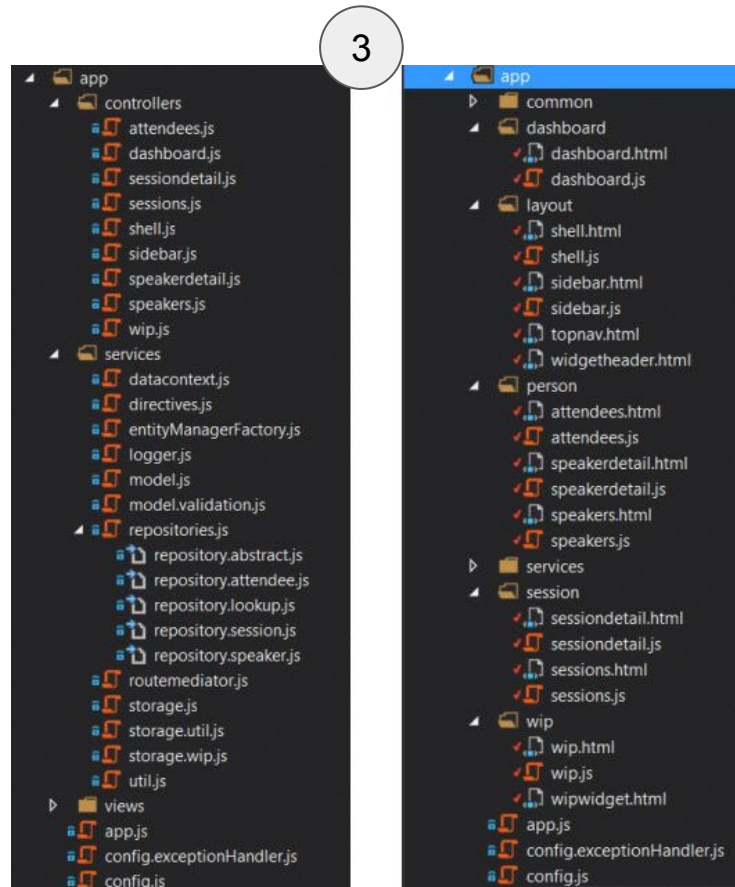
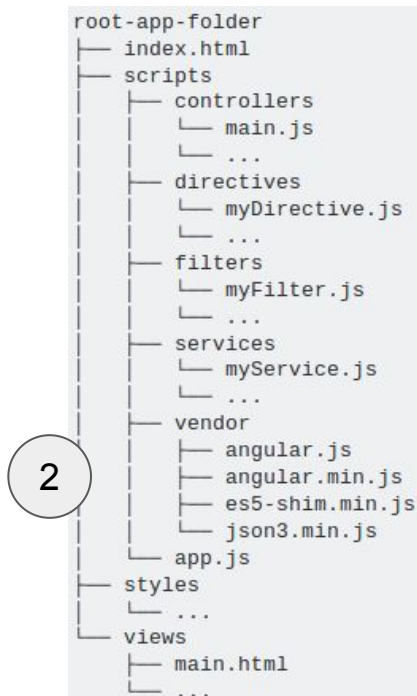


Project Files Structure



```

/scripts
  scripts.min.js (all JS concatenated, minified and grunt-rev)
  vendor.min.js (all bower components concatenated, minified and grunt-rev)
/views
/styles
  mergedAndMinified.css (grunt-cssmin)
/images
  index.html (grunt-htmlmin)
  
```



Automating Ecosystem



Bower



webpack



Ajax Sample (part 1)

```
npm init -y  
npm install http --save  
npm start
```

package.json

```
{  
  "name": "welcome",  
  "version": "1.0.0",  
  "description": "",  
  "main": "index.js",  
  "scripts": {  
    "start": "node index.js",  
    "test": "echo \\\"Error: no test  
specified\\\" && exit 1"  
  },  
  "author": "",  
  "license": "ISC",  
  "dependencies": {  
    "http": "0.0.0"  
  }  
}
```

index.js

```
#!/usr/bin/env node  
require('http').createServer(function(req, res){  
  console.log('new request');  
  if (req.url === '/'){  
    res.end(`<!DOCTYPE html>  
<html>  
<body>  
<div id="demo">  
  <h2>The XMLHttpRequest Object</h2>  
  <button type="button" onclick="load()">Change Content</button>  
</div>  
  
<script type="text/javascript">  
function load(){  
  var xhttp = new XMLHttpRequest();  
  xhttp.onreadystatechange = function(){  
    if (this.readyState === 4 && this.status === 200) {  
      document.getElementById("demo").innerHTML = this.responseText;  
    }  
  };  
  xhttp.open("GET", "hello-world", true);  
  xhttp.send();  
}  
</script>  
  
</body>  
</html>` );  
  } else if (req.url === '/hello-world'){  
    res.end('Hello World!');  
  } else{  
    res.end('Done!');  
  }  
}).listen(8080);  
console.log('server started!');
```

Ajax Sample (part 2)

One request | 12 B / 112 B transferred | Finish: 2 ms

Headers Cookies Params Response Timings Stack Trace

Request URL: http://localhost:8080/hello-world
Request method: GET
Remote address: 127.0.0.1:8080
Status code: 200 ⓘ Edit and Resend Raw headers
Version: HTTP/1.1

Filter headers

Response headers (100 B)

- Connection: keep-alive
- Content-Length: 12
- Date: Tue, 21 Aug 2018 13:41:46 GMT

Request headers (282 B)

- Accept: */*
- Accept-Encoding: gzip, deflate
- Accept-Language: en,ru;q=0.7,uk;q=0.3
- Connection: keep-alive
- Host: localhost:8080
- Referer: http://localhost:8080/
- User-Agent: Mozilla/5.0 (X11; Ubuntu; Linu...) Gecko/20100101 Firefox/61.0

Hello World!

The XMLHttpRequest Object

1 Change Content

view-source:http://localhost:8080/

```
1 <!DOCTYPE html>
2 <html>
3 <body>
4
5 <div id="demo">
6   <h2>The XMLHttpRequest Object</h2>
7   <button type="button" onclick="load()">Change Content</button>
8 </div>
9
10 <script type="text/javascript">
11 function load(){
12   var xhttp = new XMLHttpRequest();
13   xhttp.onreadystatechange = function(){
14     if (this.readyState === 4 && this.status === 200) {
15       document.getElementById("demo").innerHTML = this.responseText;
16     }
17   };
18   xhttp.open("GET", "hello-world", true);
19   xhttp.send();
20 }
21 </script>
22
23 </body>
24 </html>
```

3

Done

Done

Thank you!

Sergiy Kukharyev

Task 1

Install nodejs from [<http://nodejs.org>]

Create some folder for your project (ROOT) and change your current location to that folder.

```
> npm init -y
```

```
> npm install http --save
```

Create index.js file in ROOT folder with text from example above (AJAX Sample).

Edit script area in package.json as in example above (AJAX Sample).

```
> npm start
```

Open your browser with address [<http://localhost:8080>].

Test your application (AJAX Sample).