

# Going full circle: Writing software in the browser with Cloud9 IDE



**Cloud9 IDE**  
*Your code anywhere, anytime*

Rik Arends, CTO Co-Founder



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**Cloud9 IDE**  
*Your code anywhere, anytime*



as



**Cloud9 IDE**  
*Your code anywhere, anytime*

is to



Your editor was **not** designed with  
JavaScript in mind.

# Either too much



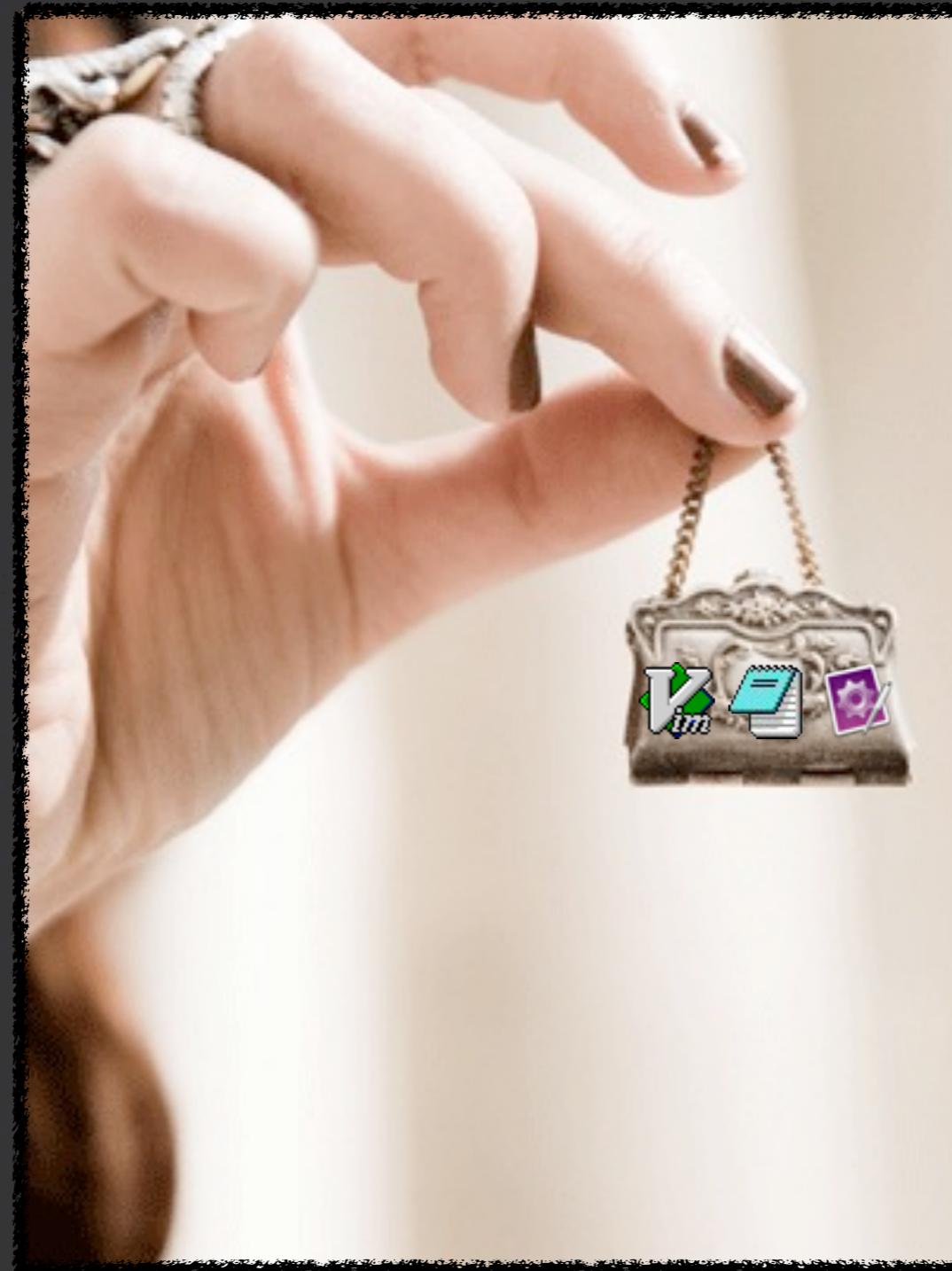
...or too little

debugging?

code analysis?

source control?

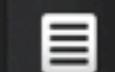
deployment?





Project Files

Project Files



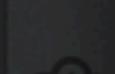
Active Files



Preferences



Deploy



Version 1.8.7

```

114     return this.keyBinding.getKeyboardHandler();
115 };
116
117 this.setSession = function(session) {
118     if (this.session == session)
119         return;
120
121     if (this.session) {
122         var oldSession = this.session;
123         this.session.removeEventListener("change", this.$onDocumentChange);
124         this.session.removeEventListener("changeMode", this.$onChangeMode);
125         this.session.removeEventListener("tokenizerUpdate", this.$onTokenizerUpdate);
126         this.session.removeEventListener("changeTabSize", this.$onChangeTabSize);
127         this.session.removeEventListener("changeWrapLimit", this.$onChangeWrapLimit);
128         this.session.removeEventListener("changeWrapMode", this.$onChangeWrapMode);
129         this.session.removeEventListener("onChangeFold", this.$onChangeFold);
130         this.session.removeEventListener("changeFrontMarker", this.$onChangeFrontMarker);
131         this.session.removeEventListener("changeBackMarker", this.$onChangeBackMarker);
132         this.session.removeEventListener("changeBreakpoint", this.$onChangeBreakpoint);
133         this.session.removeEventListener("changeAnnotation", this.$onChangeAnnotation);
134         this.session.removeEventListener("changeOverwrite", this.$onCursorChange);
135         this.session.removeListener("change", this.$onDocumentChange);
136         var selection = this.session.getSelection();
137         selection.removeMarker("start");
138         selection.removeMarker("end");
139         selection.removeRange("start", "end");
140
141         this.session = session;
142     }
143
144     this.session = session;
145     this.$onDocumentChange = session.addEventListener("change", this.$onDocumentChange);
146     session.addEventListerner("change", this.$onDocumentChange);
147     this.renderer.setSession(session);
148
149     this.$onChangeMode = this.onChangeMode.bind(this);
150     session.addEventListerner("changeMode", this.$onChangeMode);
151     this.$onTokenizerUpdate = this.onTokenizerUpdate.bind(this);
152
153     this.$onTokenizerUpdate = this.onTokenizerUpdate.bind(this);

```

removeEventListener

removeMarker

cursorChange);

removeLines

onSelectionChange);

remove

Row());

removeWordRight

removeWordLeft

removeToLineStart

removeToLineEnd

removedFolds

edit\_session.js

Console

Output

```

at Object.<anonymous> (/mnt/ws/users/zef/87605/lib/ace/test/mockdom.js:1:77)
at Module.<anonymous> (module.js:404:26)
at Module._compile (/mnt/ws/users/zef/87605/support/requireJS-node.js:9:27)
at Object..js (module.js:410:10)
at Module.load (module.js:336:31)
at Function._load (module.js:297:12)
at require (module.js:348:19)

```

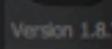
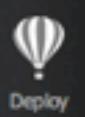
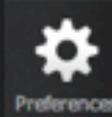
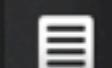


Project Files

```

text_highlight_rules.js
text_test.js
textile.js
textile_highlight_rules.js
xml.js
xml_highlight_rules.js
xml_test.js
xml_tokenizer_test.js
mouse
narcissus
requirejs
settings
test
theme
worker
ace.js
anchor.js
anchor_test.js
background_tokenizer.js
defaults.js
document.js
document_test.js
edit_session.js
edit_session_test.js
*editor.js
editor_change_document_test.js
editor_highlight_selected_word_test.js
editor_navigation_test.js
editor_text_edit_test.js
range.js
range_test.js
renderloop.js
scrollbar.js

```



Version 1.8.7

```

114     return this.keyBinding.getKeyboardHandler();
115 };
116
117 this.setSession = function(session) {
118     if (this.session == session)
119         return;
120
121     if (this.session) {
122         var oldSession = this.session;
123         this.session.removeEventListener("change", this.$onDocumentChange);
124         this.session.removeEventListener("changeMode", this.$onChangeMode);
125         this.session.removeEventListener("tokenizerUpdate", this.$onTokenizerUpdate);
126         this.session.removeEventListener("changeTabSize", this.$onChangeTabSize);
127         this.session.removeEventListener("changeWrapLimit", this.$onChangeWrapLimit);
128         this.session.removeEventListener("changeWrapMode", this.$onChangeWrapMode);
129         this.session.removeEventListener("onChangeFold", this.$onChangeFold);
130         this.session.removeEventListener("changeFrontMarker", this.$onChangeFrontMarker);
131         this.session.removeEventListener("changeBackMarker", this.$onChangeBackMarker);
132         this.session.removeEventListener("changeBreakpoint", this.$onChangeBreakpoint);
133         this.session.removeEventListener("changeAnnotation", this.$onChangeAnnotation);
134         this.session.removeEventListener("changeOverwrite", this.$onCursorChange);
135         this.session.removeListener("change", this.$onDocumentChange);
136         var selection = this.session.getSelection();
137         selection.removeMarker("start");
138         selection.removeMarker("end");
139         selection.removeRange("start");
140         selection.removeRange("end");
141     }
142     this.session = session;
143     this.$onDocumentChange = session.addEventListener("change", this.$onDocumentChange);
144     session.addEventListerner("change", this.$onDocumentChange);
145     this.renderer.setSession(session);
146     this.$onChangeMode = this.onChangeMode.bind(this);
147     session.addEventListerner("changeMode", this.$onChangeMode);
148     this.$onTokenizerUpdate = this.onTokenizerUpdate.bind(this);
149     this.$onChangeListener = this.onChangeListener.bind(this);
150     session.addEventListerner("change", this.$onChangeListener);
151     session.addEventListerner("changeMode", this.$onChangeListener);
152     this.$onChangeFold = this.onChangeFold.bind(this);
153     session.addEventListerner("changeFold", this.$onChangeFold);

```

removeEventListener

removeMarker

cursorChange);

removeLines

onSelectionChange);

remove

Row());

removeWordRight

removeWordLeft

removeToLineStart

removeToLineEnd

removedFolds

edit\_session.js

Console

Output

```

at Object.<anonymous> (/mnt/ws/users/zef/87605/lib/ace/test/mockdom.js:1:77)
at Module.<anonymous> (module.js:404:26)
at Module._compile (/mnt/ws/users/zef/87605/support/requireJS-node.js:9:27)
at Object..js (module.js:410:10)
at Module.load (module.js:336:31)
at Function._load (module.js:297:12)
at require (module.js:348:19)

```

File Edit View Windows | debug run stop || Project Files default\_command... edit\_session.js \*editor.js

Project Files Active Files Preferences Deploy Version 1.8.7

text\_highlight\_rules.js  
text\_test.js  
textile.js  
textile\_highlight\_rules.js  
xml.js  
xml\_highlight\_rules.js  
xml\_test.js  
xml\_tokenizer\_test.js  
mouse  
narcissus  
requirejs  
settings  
test  
theme  
worker  
ace.js  
anchor.js  
anchor\_test.js  
background\_tokenizer.js  
defaults.js  
document.js  
document\_test.js  
edit\_session.js  
edit\_session\_test.js  
\*editor.js  
editor\_change\_document\_test.js  
editor\_highlight\_selected\_word\_test.js  
editor\_navigation\_test.js  
editor\_text\_edit\_test.js  
range.js  
range\_test.js  
renderloop.js  
scrollbar.js

114        return this.keyBinding.getKeyboardHandler();  
115     };  
116  
117     this.setSession = function(session) {  
118        if (this.session == session)  
119            return;  
120  
121        if (this.session) {  
122            var oldSession = this.session;  
123            this.session.removeEventListener("change", this.\$onDocumentChange);  
124            this.session.removeEventListener("changeMode", this.\$onChangeMode);  
125            this.session.removeEventListener("tokenizerUpdate", this.\$onTokenizerUpdate);  
126            this.session.removeEventListener("changeTabSize", this.\$onChangeTabSize);  
127            this.session.removeEventListener("changeWrapLimit", this.\$onChangeWrapLimit);  
128            this.session.removeEventListener("changeWrapMode", this.\$onChangeWrapMode);  
129            this.session.removeEventListener("onChangeFold", this.\$onChangeFold);  
130            this.session.removeEventListener("changeFrontMarker", this.\$onChangeFrontMarker);  
131            this.session.removeEventListener("changeBackMarker", this.\$onChangeBackMarker);  
132            this.session.removeEventListener("changeBreakpoint", this.\$onChangeBreakpoint);  
133            this.session.removeEventListener("changeAnnotation", this.\$onChangeAnnotation);  
134            this.session.removeEventListener("changeCursor", this.\$onChangeCursor);  
135            this.session.removeListener("changeCursor", this.\$onChangeCursor);  
136  
137        var selection = this.selection;  
138        selection.removeListener("change", this.\$onSelectionChange);  
139        selection.removeListener("changeMode", this.\$onSelectionChange);  
140  
141        this.session.removeListener("change", this.\$onDocumentChange);  
142        this.session.removeListener("changeMode", this.\$onChangeMode);  
143        this.session.removeListener("tokenizerUpdate", this.\$onTokenizerUpdate);  
144        this.session.removeListener("changeTabSize", this.\$onChangeTabSize);  
145        this.session.removeListener("changeWrapLimit", this.\$onChangeWrapLimit);  
146        this.session.removeListener("changeWrapMode", this.\$onChangeWrapMode);  
147        this.session.removeListener("onChangeFold", this.\$onChangeFold);  
148        this.session.removeListener("changeFrontMarker", this.\$onChangeFrontMarker);  
149        this.session.removeListener("changeBackMarker", this.\$onChangeBackMarker);  
150        this.session.removeListener("changeBreakpoint", this.\$onChangeBreakpoint);  
151        this.session.removeListener("changeAnnotation", this.\$onChangeAnnotation);  
152        this.session.removeListener("changeCursor", this.\$onChangeCursor);  
153        this.\$onDocumentChange = this.onChangeMode.bind(this);  
          session.addEventListener("change", this.\$onDocumentChange);  
          this.renderer.setSession(session);  
  
          this.\$onChangeMode = this.onChangeMode.bind(this);  
          session.addEventListener("changeMode", this.\$onChangeMode);  
  
          this.\$onTokenizerUpdate = this.onTokenizerUpdate.bind(this);

removeEventListener  
removeMarker  
removeLines  
remove  
removeWordRight  
removeWordLeft  
removeToLineStart  
removeToLineEnd  
removedFolds

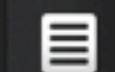
Console Output

at Object.<anonymous> (/mnt/ws/users/zef/87605/lib/ace/test/mockdom.js:1:77)  
at Module.<anonymous> (module.js:404:26)  
at Module.\_compile (/mnt/ws/users/zef/87605/support/requireJS-node.js:9:27)  
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at require (module.js:348:19)



Project Files

Project Files



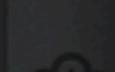
Active Files



Preferences



Deploy



Version 1.8.7

```

114     return this.keyBinding.getKeyboardHandler();
115 };
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117 this.setSession = function(session) {
118     if (this.session == session)
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125         this.session.removeEventListener("tokenizerUpdate", this.$onTokenizerUpdate);
126         this.session.removeEventListener("changeTabSize", this.$onChangeTabSize);
127         this.session.removeEventListener("changeWrapLimit", this.$onChangeWrapLimit);
128         this.session.removeEventListener("changeWrapMode", this.$onChangeWrapMode);
129         this.session.removeEventListener("onChangeFold", this.$onChangeFold);
130         this.session.removeEventListener("changeFrontMarker", this.$onChangeFrontMarker);
131         this.session.removeEventListener("changeBackMarker", this.$onChangeBackMarker);
132         this.session.removeEventListener("changeBreakpoint", this.$onChangeBreakpoint);
133         this.session.removeEventListener("changeAnnotation", this.$onChangeAnnotation);
134         this.session.removeEventListener("changeOverwrite", this.$onCursorChange);
135         this.session.removeEventListener("removeEventListener", this.$onRemoveEventListener);
136         var selection = this.session.getSelection();
137         selection.removeMarker("selection");
138         selection.removeLine("selection");
139         selection.removeRange("selection");
140         this.session.removeEventListener("selectionChange", this.$onSelectionChange);
141     }
142     this.session = session;
143     this.session.addEventListener("change", this.$onDocumentChange);
144     this.session.addEventListener("changeMode", this.$onChangeMode);
145     this.session.addEventListener("tokenizerUpdate", this.$onTokenizerUpdate);
146     this.$onDocumentChange = this.onChangeMode.bind(this);
147     session.addEventListener("change", this.$onDocumentChange);
148     this.renderer.setSession(session);
149
150     this.$onChangeMode = this.onChangeMode.bind(this);
151     session.addEventListener("changeMode", this.$onChangeMode);
152
153     this.$onTokenizerUpdate = this.onTokenizerUpdate.bind(this);

```



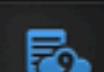
Console

Output

```

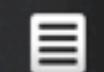
at Object.<anonymous> (/mnt/ws/users/zef/87605/lib/ace/test/mockdom.js:1:77)
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```



Project Files

Project Files



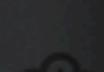
Active Files



Preferences



Deploy



Version 1.8.7

```

114     return this.keyBinding.getKeyboardHandler();
115 };
116
117 this.setSession = function(session) {
118     if (this.session == session)
119         return;
120
121     if (this.session) {
122         var oldSession = this.session;
123         this.session.removeEventListener("change", this.$onDocumentChange);
124         this.session.removeEventListener("changeMode", this.$onChangeMode);
125         this.session.removeEventListener("tokenizerUpdate", this.$onTokenizerUpdate);
126         this.session.removeEventListener("changeTabSize", this.$onChangeTabSize);
127         this.session.removeEventListener("changeWrapLimit", this.$onChangeWrapLimit);
128         this.session.removeEventListener("changeWrapMode", this.$onChangeWrapMode);
129         this.session.removeEventListener("onChangeFold", this.$onChangeFold);
130         this.session.removeEventListener("changeFrontMarker", this.$onChangeFrontMarker);
131         this.session.removeEventListener("changeBackMarker", this.$onChangeBackMarker);
132         this.session.removeEventListener("changeBreakpoint", this.$onChangeBreakpoint);
133         this.session.removeEventListener("changeAnnotation", this.$onChangeAnnotation);
134         this.session.removeEventListener("changeOverwrite", this.$onCursorChange);
135         this.session.removeListener("change", this.$onDocumentChange);
136         var selection = this.session.getSelection();
137         selection.removeMarker("start");
138         selection.removeMarker("end");
139         selection.removeRange("start");
140         selection.removeRange("end");
141         this.session.removeListener("selectionChange", this.$onSelectionChange);
142     }
143     this.session = session;
144     this.$onDocumentChange = session.addEventListener("change", this.$onDocumentChange);
145     session.addEventListerner("change", this.$onDocumentChange);
146     this.renderer.setSession(session);
147
148     this.$onChangeMode = this.onChangeMode.bind(this);
149     session.addEventListerner("changeMode", this.$onChangeMode);
150
151     this.$onTokenizerUpdate = this.onTokenizerUpdate.bind(this);
152
153     this.$onTokenizerUpdate = this.onTokenizerUpdate.bind(this);

```

removeEventListener

removeMarker

cursorChange);

removeLines

onSelectionChange);

remove

Row());

removeWordRight

removeWordLeft

removeToLineStart

removeToLineEnd

removedFolds

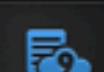
edit\_session.js

Console Output

```

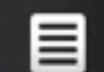
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```



Project Files

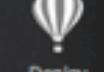
Project Files



Active Files



Preferences



Deploy



Version 1.8.7

```

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117 this.setSession = function(session) {
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123         this.session.removeEventListener("change", this.$onDocumentChange);
124         this.session.removeEventListener("changeMode", this.$onChangeMode);
125         this.session.removeEventListener("tokenizerUpdate", this.$onTokenizerUpdate);
126         this.session.removeEventListener("changeTabSize", this.$onChangeTabSize);
127         this.session.removeEventListener("changeWrapLimit", this.$onChangeWrapLimit);
128         this.session.removeEventListener("changeWrapMode", this.$onChangeWrapMode);
129         this.session.removeEventListener("onChangeFold", this.$onChangeFold);
130         this.session.removeEventListener("changeFrontMarker", this.$onChangeFrontMarker);
131         this.session.removeEventListener("changeBackMarker", this.$onChangeBackMarker);
132         this.session.removeEventListener("changeBreakpoint", this.$onChangeBreakpoint);
133         this.session.removeEventListener("changeAnnotation", this.$onChangeAnnotation);
134         this.session.removeEventListener("changeOverwrite", this.$onCursorChange);
135         this.session.removeListener("change", this.$onDocumentChange);
136         var selection = this.session.getSelection();
137         selection.removeMarker(this.$onSelectionChange);
138         selection.removeLines();
139         selection.remove();
140         this.session.removeListener("changeMode", this.$onChangeMode);
141     }
142     this.session = session;
143     this.$onDocumentChange = session.addEventListener("change", this.$onDocumentChange);
144     this.renderer.setSession(session);
145     this.$onChangeMode = this.onChangeMode.bind(this);
146     session.addEventListener("changeMode", this.$onChangeMode);
147     this.$onTokenizerUpdate = this.onTokenizerUpdate.bind(this);
148     this.renderer.setSession(session);
149     this.$onDocumentChange = session.addEventListener("change", this.$onDocumentChange);
150     session.addEventListener("changeMode", this.$onChangeMode);
151     this.$onTokenizerUpdate = this.onTokenizerUpdate.bind(this);
152 
```

removeEventListener

removeMarker

cursorChange);

removeLines

onSelectionChange);

remove

Row());

removeWordRight

removeWordLeft

removeToLineStart

removeToLineEnd

removedFolds

edit\_session.js

Console Output

```
[guest@cloud9]:~/workspace$ git status
# On branch master
nothing to commit (working directory clean)
  checkout Checkout a branch or paths to the working tree
  clone Clone a repository into a new directory
  commit Record changes to the repository
```

&gt; git c

File Edit View Windows | | Cloud9 IDE

Project Files Active Files Preferences Deploy Version 1.8.7

Project Files

- text\_highlight\_rules.js
- text\_test.js
- textile.js
- textile\_highlight\_rules.js
- xml.js
- xml\_highlight\_rules.js
- xml\_test.js
- xml\_tokenizer\_test.js
- mouse
- narcissus
- requirejs
- settings
- test
- theme
- worker
- ace.js
- anchor.js
- anchor\_test.js
- background\_tokenizer.js
- defaults.js
- document.js
- document\_test.js
- edit\_session.js
- edit\_session\_test.js
- \*editor.js
- editor\_change\_document\_test.js
- editor\_highlight\_selected\_word\_test.js
- editor\_navigation\_test.js
- editor\_text\_edit\_test.js
- range.js
- range\_test.js
- renderloop.js
- scrollbar.js

default\_command... x edit\_session.js x \*editor.js x

```

114     return this.keyBinding.getKeyboardHandler();
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127         this.session.removeEventListener("changeWrapLimit", this.$onChangeWrapLimit);
128         this.session.removeEventListener("changeWrapMode", this.$onChangeWrapMode);
129         this.session.removeEventListener("onChangeFold", this.$onChangeFold);
130         this.session.removeEventListener("changeFrontMarker", this.$onChangeFrontMarker);
131         this.session.removeEventListener("changeBackMarker", this.$onChangeBackMarker);
132         this.session.removeEventListener("changeBreakpoint", this.$onChangeBreakpoint);
133         this.session.removeEventListener("changeAnnotation", this.$onChangeAnnotation);
134         this.session.removeEventListener("changeOverwrite", this.$onCursorChange);
135         this.session.remov
136
137         var selection = this.session.getSelection();
138         selection.removeMarker();
139         selection.removeLines();
140
141         this.session.removeListener("selectionChange", this.$onSelectionChange);
142     }
143
144     this.session = session;
145     this.$onDocumentChange = session.addEventListener("change", this.$onDocumentChange);
146     session.addEventListene
147     session.addEventListener("change", this.$onDocumentChange);
148     this.renderer.setSession(session);
149
150     this.$onChangeMode = this.onChangeMode.bind(this);
151     session.addEventListener("changeMode", this.$onChangeMode);
152
153     this.$onTokenizerUpdate = this.onTokenizerUpdate.bind(this);

```

removeEventListener  
removeMarker  
removeLines  
remove  
removeWordRight  
removeWordLeft  
removeToLineStart  
removeToLineEnd  
removedFolds

Console Output

```

at Object.<anonymous> (/mnt/ws/users/zef/87605/lib/ace/test/mockdom.js:1:77)
at Module.<anonymous> (module.js:404:26)
at Module._compile (/mnt/ws/users/zef/87605/support/requireJS-node.js:9:27)
at Object..js (module.js:410:10)
at Module.load (module.js:336:31)
at Function._load (module.js:297:12)
at require (module.js:348:19)

```

# We built Cloud9 IDE in Cloud9 IDE



100%



Is Node.js ready for  
production?

Yes indeed.

demo



Unleash the **awesome** power of the  
**Cloud**

Create

Deploy

Run/Debug

Share

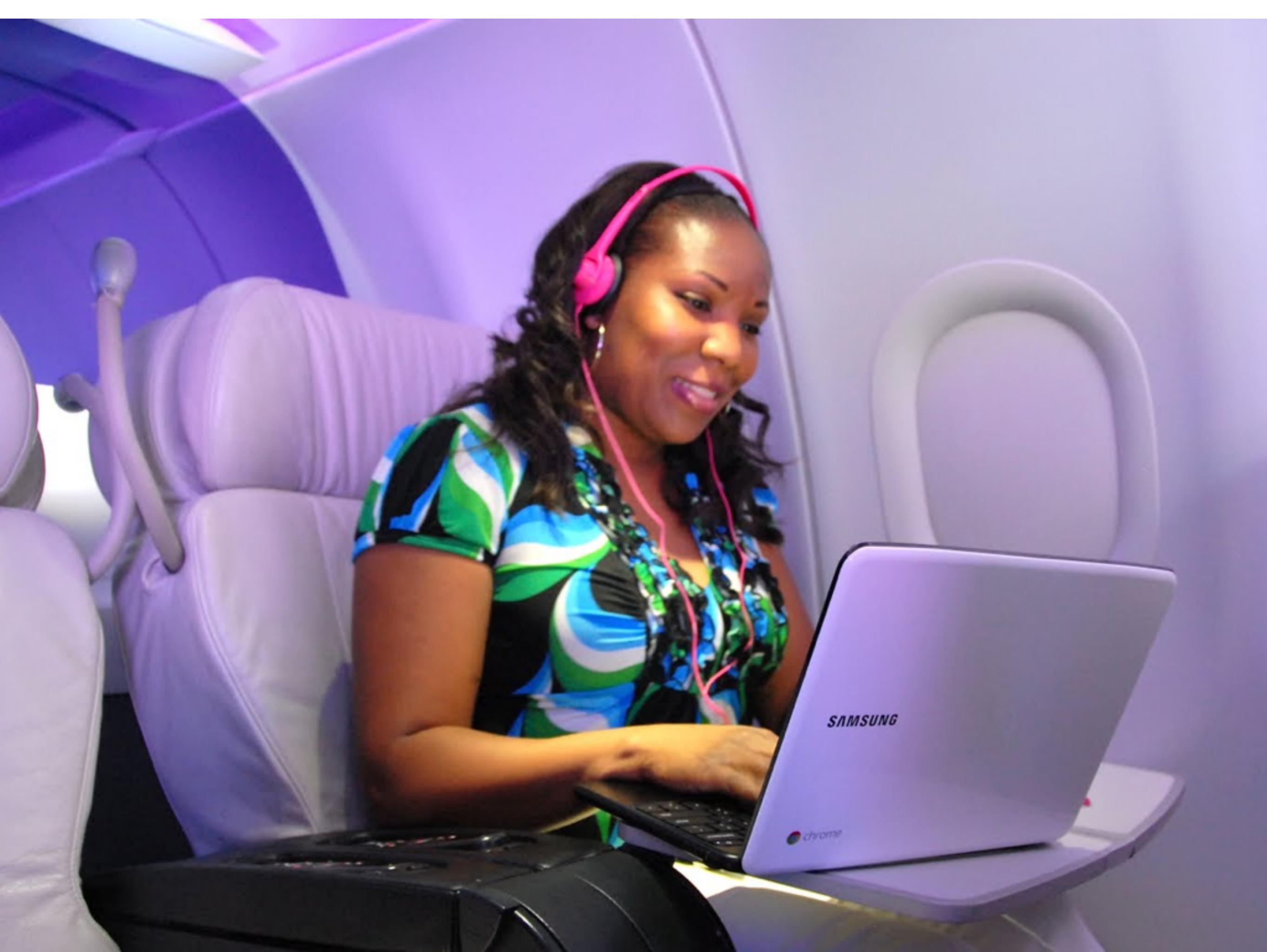
Test



Your code lives in the cloud  
so you can access it...







Your code lives in the cloud  
so you can collaborate...



geekdots  
node\_modules  
socket.io  
www  
client.js  
index.html  
styles.css  
README.md  
server.js

Invite people to this project by sharing the URL with them.

To access private projects both parties must have a Premium Account.



Open a file or create a new one to get started

client

HTML5  
CSS3  
JavaScript

client

HTML5  
CSS3  
JavaScript

server

Node.js  
Redis

client

HTML5  
CSS3  
JavaScript

server

Node.js  
Redis



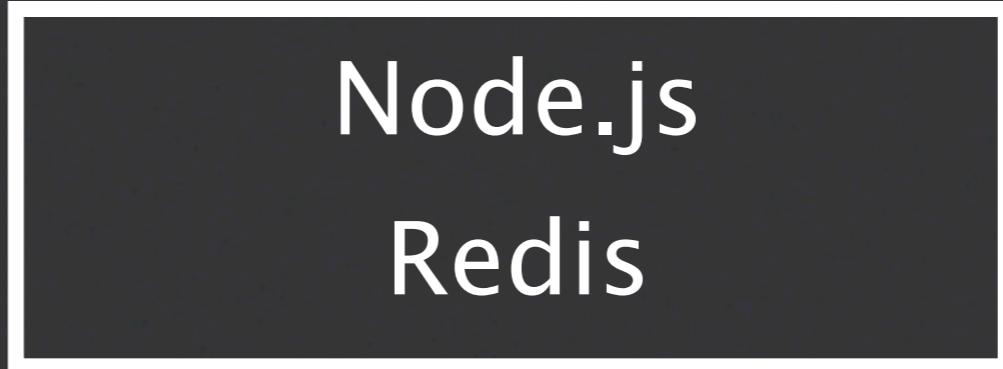
XMLHttpRequest  
HTML5 WebSockets

client



80%

server

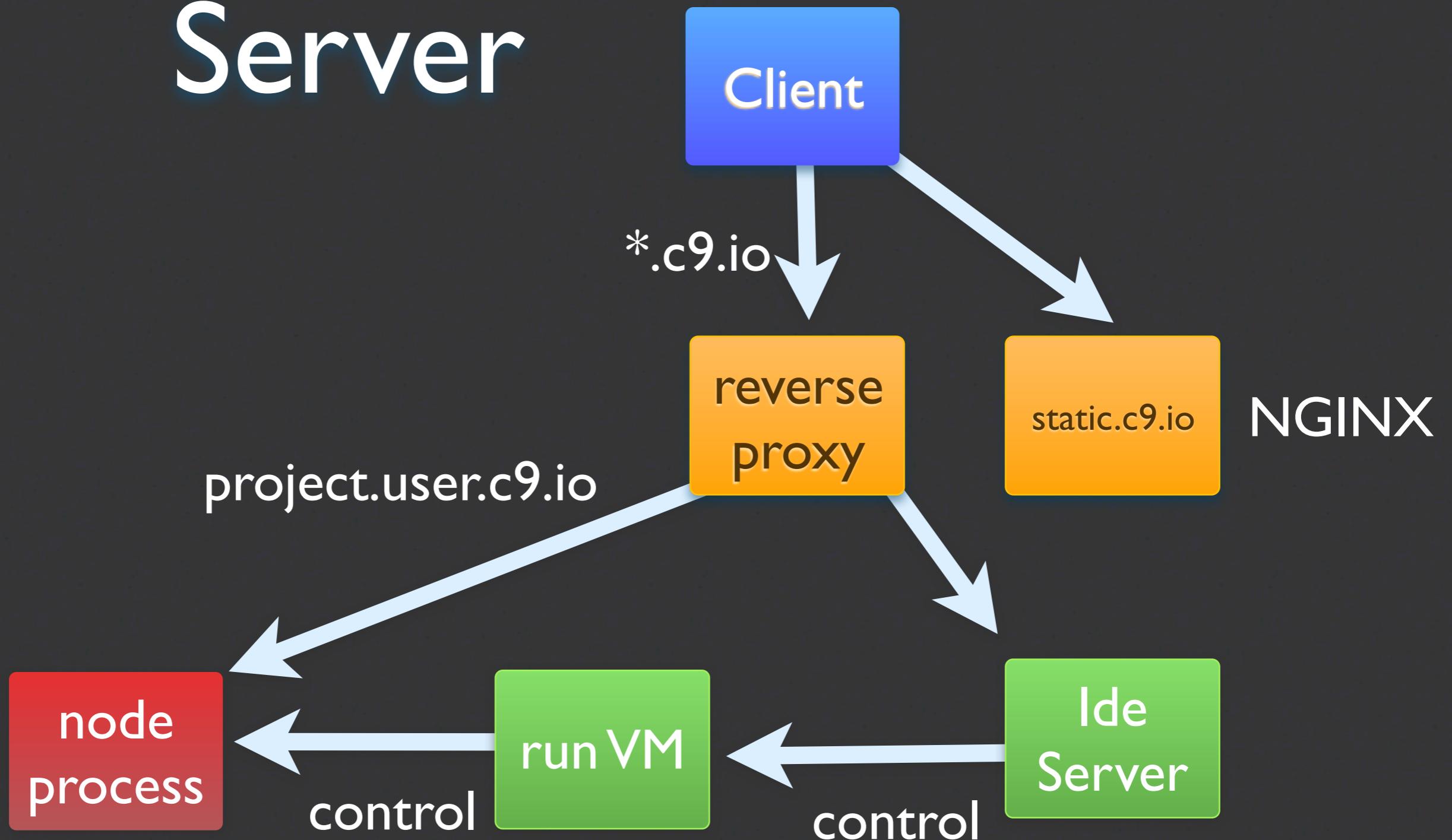


20%



XMLHttpRequest  
HTML5 WebSockets

# Server



# Node.JS continuity

- Single process, single exception crashes everything: NEVER THROW
- Thick client, design stateless
- Front proxy

built on  
open source

# Some of our contributions

Cloud9 IDE ([github.com/ajaxorg/cloud9](https://github.com/ajaxorg/cloud9))

ACE ([github.com/ajaxorg/node-github](https://github.com/ajaxorg/node-github))

jsDAV ([github.com/ajaxorg/jsdav](https://github.com/ajaxorg/jsdav))

jsFTP ([github.com/ajaxorg/jsftp](https://github.com/ajaxorg/jsftp))

async.js ([github.com/ajaxorg/async.js](https://github.com/ajaxorg/async.js))

node-github ([github.com/ajaxorg/node-github](https://github.com/ajaxorg/node-github))

...

# Upcoming



# Upcoming

- Collaboration release
- Autocomplete and docs for Node.JS
- Git UI
- iPad version
- SSH / SFTP support
- Support for Ruby, Python, PHP, (Java)

Cloud9 IDE - Ajax.org

www.cloud9ide.com/davidvb

File Edit View Windows My Projects | Sign out Cloud9 IDE

Save Open... debug run stop Refresh Pull Push Checkout Commit Merge Revert + Add Delete

**GIT CORNER**

**STAGE** HISTORY TEAM MEMBERS

**Branches**

- master
  - Tree
  - Date
  - Subject
  - Author
  - Hash
  - december 9 deploy Merge branch 'deploy'
  - december 9 update cloud9
  - december 9 update cloud9
  - december 9 \*fixed several minor issues that needed fixing. Re...
  - december 9 update cloud9
  - december 9 update cloud9
  - december 9 update cloud9
  - december 9 Merge branch 'deploy' of cloud9:c9 into deploy

**Tags**

**Remotes**

- source
  - source/dev\_rk
  - source/dev\_rb
  - source/dev\_dj
  - source/dev\_HEAD
  - source/master
  - source/refactor

**Stashes**

**Project Files**

**Open Files**

**Visual Editor**

**Preferences**

**Git Corner**

**History Details**

AUTHOR: giannis DATE: 9 december 2010 12:20 SUBJECT: \*fixed several minor issues...

SHA: 094b543FBFty34tERNIE34EN4tBERT654 PARENT: e077ab12396a39e077ab12396a3971

\*fixed several minor issues that needed fixing. Replaced the flux capacitors and polished

**Modified** GitClient/GCGitFetchCommitDiffTask.h

**Modified** GitClient/Transistions.js

**Added** GitClient/indextest.html

**GitClient/GCGitFetchCommitDiffTask.h**

1 chunk, 1 insertion, 0 deletions

```

@@ -249,6 +249,7 @@
<h4>Reserve your URL <a href="#">Terms of use</a></h4>
<a: textbox id="tbReserveUrl"
  required = "true"
  onkeyup = "errorReserve.hide();"
  invalidmsg = "This username is already taken, please try another!"
  skin = "tb_reserve_url"/>
<a: hbox edge="10 0 0 0" padding="10" align="center">

```

Version 0.95

git pull origin master

got inspiration?

fork cloud9 and contribute

or join us, we're hiring

<http://c9.io>



Questions?

Twitter: @rikarends

Email: [rik@c9.io](mailto:rik@c9.io)