

{ Cloud based } Web IDE introduction **@Silicon Valley**



● Feedback & Questions

@Silicon Valley





**Discover IDEs what could
happen beyond the Clouds**

{ 김장윤 }



IDE,

the Emergence & Evolution

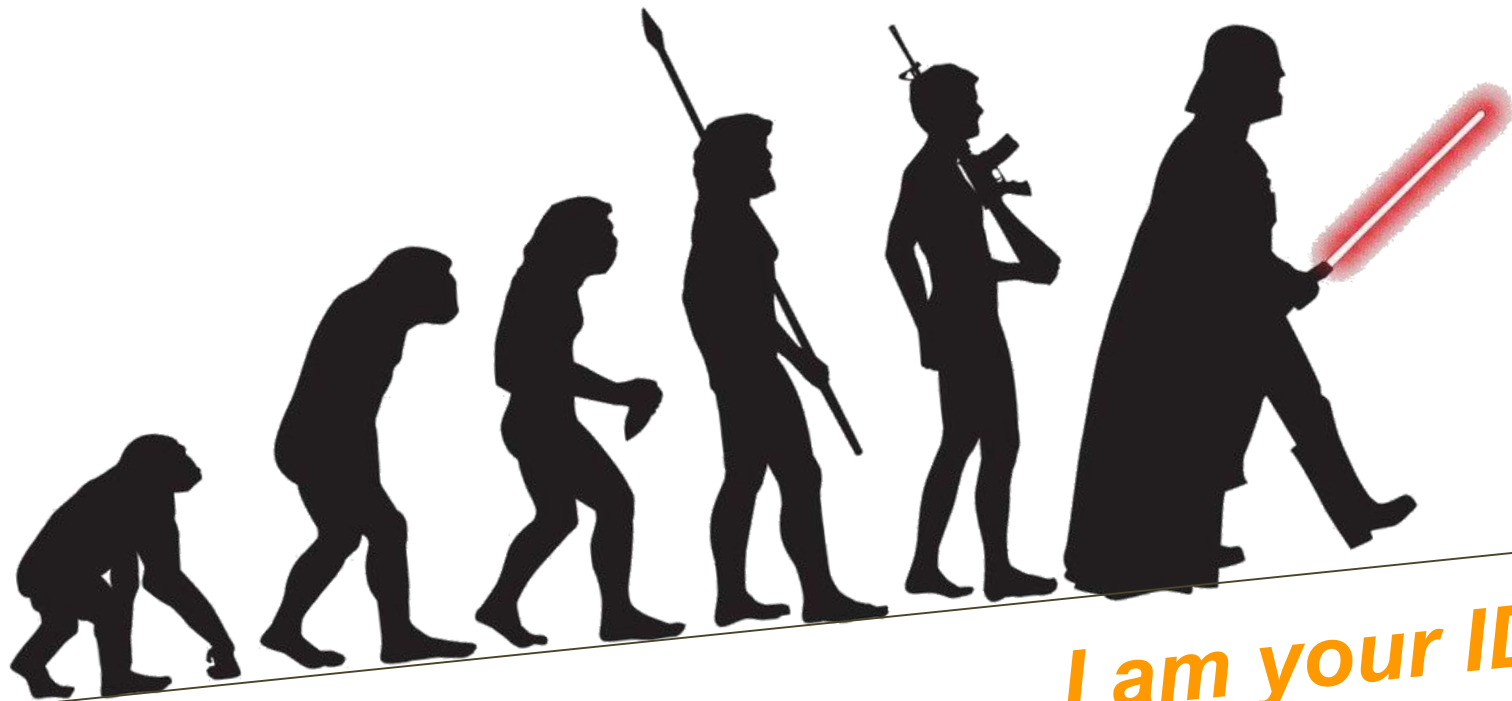
● IDE

『 **Maestro I** 』 was the world's first integrated development environment for software. It was developed by Softlab Munich, 1975

(source: wikipedia)

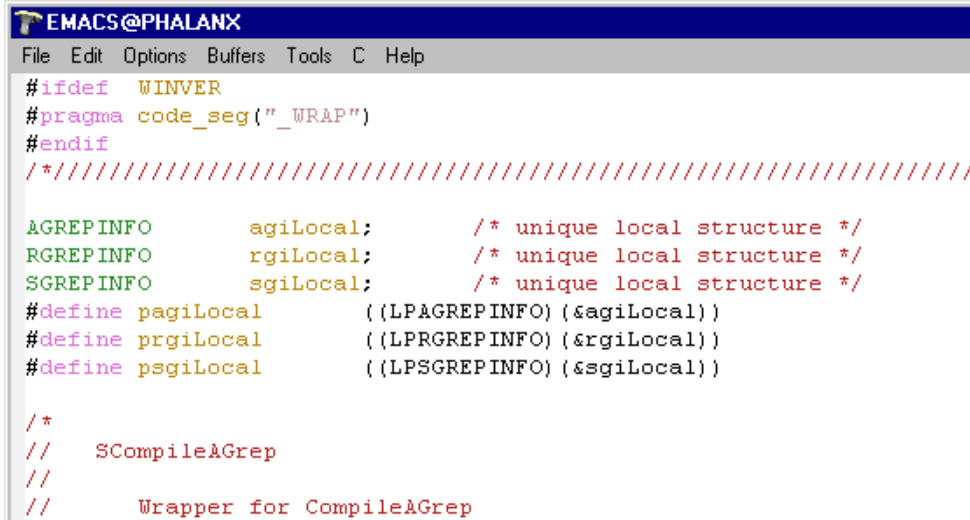
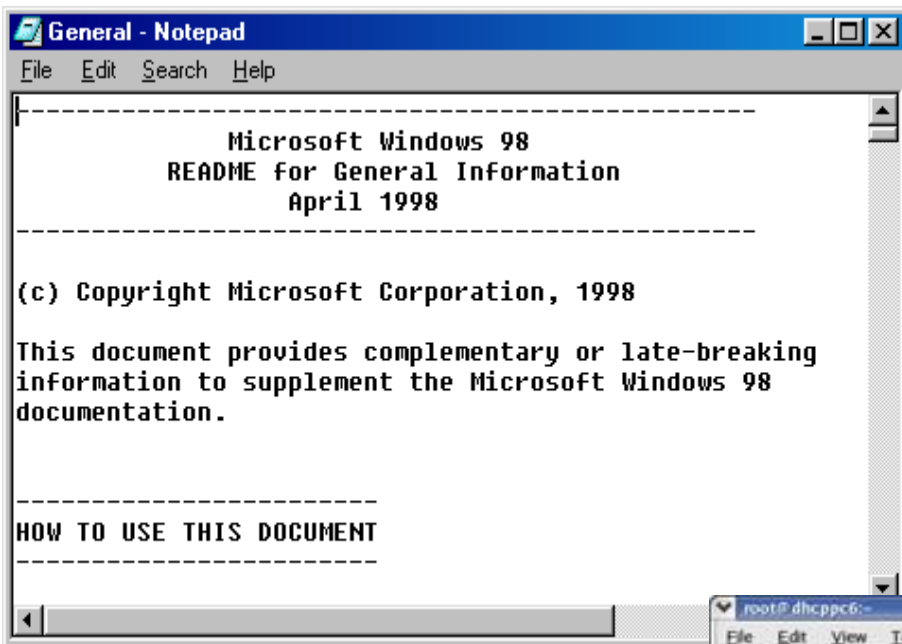


● Evolution of IDE



I am your IDE ~

Notepad?



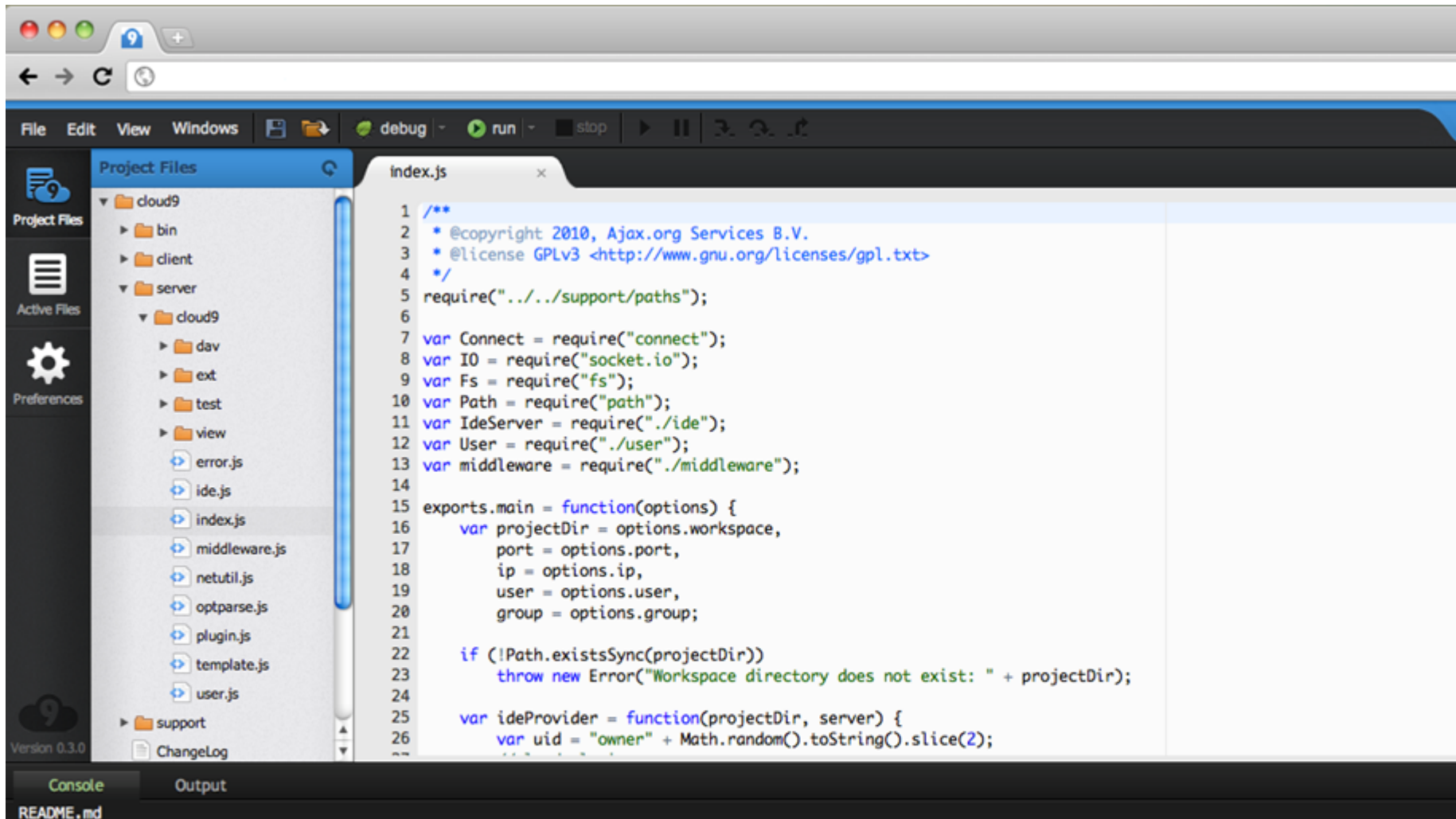
IDE



On Cloud

+ Open Source

{ Cloud based } Web IDE



{ Cloud based } Web IDE, **benefits?**

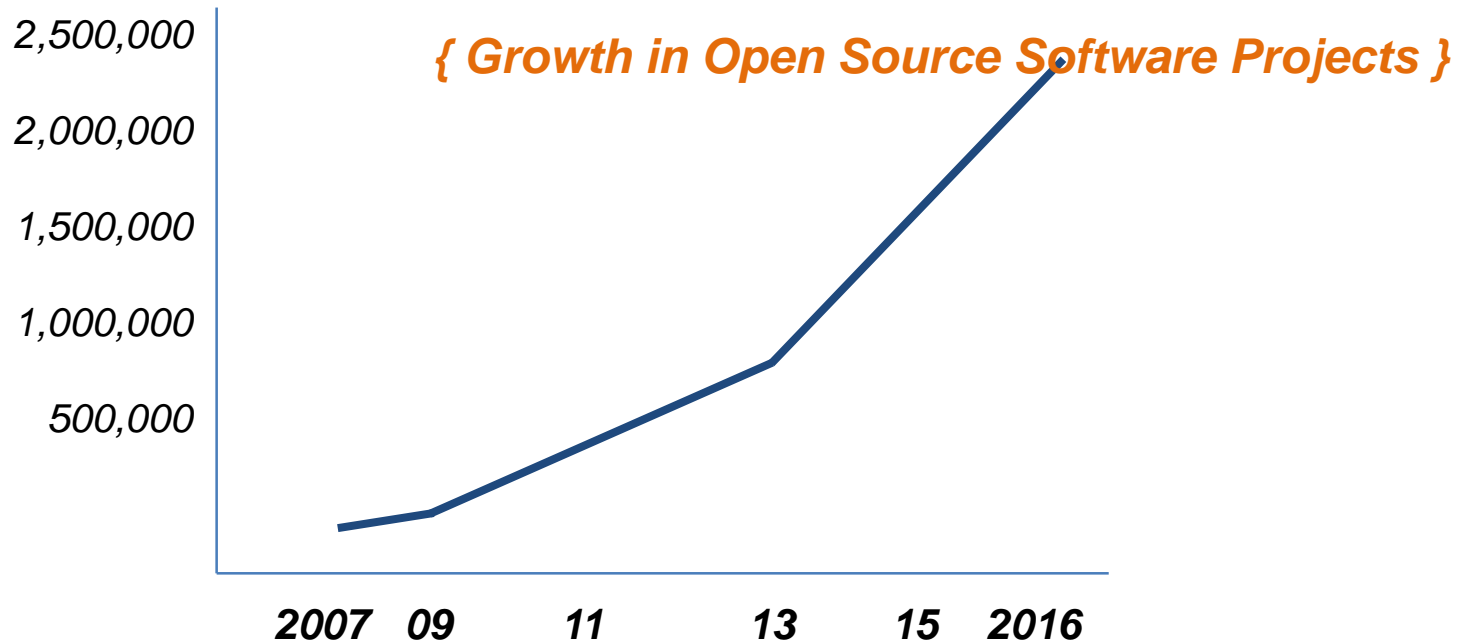


- Need only web browser
- Require no installation
- Build, debug & run on the Cloud
- Collaborate in the same page
- Support various programming languages in single platform

If you create your Cloud IDE,



Think Open Source Software



● the Rule of Game





Cloud based Web IDE

with Open Source



Be chef with Open Source



Open Source Software(s) of Cloud based Web IDE



Cloud9 IDE
Your code anywhere, anytime.

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SUPPORT • STATUS • DOCUMENTATION

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Write, run, and debug your code with our powerful and flexible cloud IDE. Collaborate on your workspaces publicly, or keep them private. The choice is yours!

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Features:

- Web-based IDE for collaborative coding
- Direct fast deployment
- Git integration for version control

Resources:

Take a video tour, try some tutorials or browse the documentation.

Get Help:

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ShiftEdit The Online IDE

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already have an account?

ShiftEdit is an online IDE for developing PHP, Ruby, Python, Perl, HTML, CSS and JavaScript via FTP, SFTP, Dropbox and Google Drive

"The online IDE is one of the first frontiers of apps ported to the web. I would like to be able to develop from any computer or operating system and have the same experience without having to install software or create site definitions." - Adam Jensen (founder)

Get Started Learn More

Kodingen

Welcome Guest! Code, Share, Have Fun.

guest.kodingen.com

httpdocs

m151a

.htaccess

img_Fish_1600.jpg

img_Yellow_1600.jpg

index.html

perl.pl

Your servers

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Software Development Without the Pain

Cloud-based code editor with collaboration, one-click installs and snapshots

Email address **GET STARTED**

The Flatiron School has selected Nitrous as its software development platform. [Read more](#)

A full-featured IDE in your browser

Offline Desktop to Cloud

The screenshot displays the Cloud9 IDE interface, which is designed for collaborative development in the cloud. The interface is divided into several panels:

- Top Bar:** Contains the Cloud9 logo and standard menu items (File, Edit, Find, View, Goto, Run, Tools, Window, Help). It also includes a Preview button, a Run button, a user profile icon, and system resource monitors (MEMORY, CPU, DISK).
- Left Panel:** Features a 'Workspace' sidebar with a file explorer showing the project structure. The 'Commands' and 'Navigate' tabs are visible. The file list includes folders like .c9, .git, bin, build, configs, docs, etc, local, node_modules, plugins, scripts, settings, and test, along with files like .eslintrc, .gitignore, .nakeignore, .sdkconfig.js, LICENSE, Makefile, npm-shrinkwrap.json, package.json, README.md, and server.js.
- Center Panel:** The main code editor area. It shows two open files: 'server.js' and 'base_handler.js'. The 'server.js' file is currently active, displaying JavaScript code with comments and function definitions. The code includes a 'handlesLanguage' function and a 'handlesEditor' function. The editor also shows a status bar at the bottom indicating the current line (129), column (65), language (JavaScript), and indentation (Spaces: 4).
- Right Panel:** Contains a 'Browser' window showing the URL 'https://ide.cloud9-lenna'. Below the browser is a 'Collaborate' sidebar with tabs for 'Outline' and 'Debugger'. The 'Debugger' tab is active, showing a command prompt with the text '\$ node -v' and 'v0.10.35'.
- Bottom Panel:** A 'Terminal' window showing the output of the 'server.js' command. It displays a series of GET requests and responses, including timestamps and status codes.

Offline Desktop to Cloud

```
28 if params[:type].to_s.match(/.+CustomField$/)
29   params[:type].to_s.constantize.new(params[:custom_field])
30 end
31 rescue
32 end
```

Console Redmine

```
basilmac-2:Redmine basil$ sudo gem list ruby

*** LOCAL GEMS ***

ruby-debug (0.10.3)
ruby-debug-base (0.10.3)
ruby-debug-ide (0.4.9, 0.4.5)
ruby-openid (2.1.7, 2.1.2)
ruby-terminfo (0.1.1)
ruby-yadis (0.3.4)
rubyforge (2.0.4)
rubygems-update (1.3.7, 1.3.6)
rubynode (0.1.5)
rubyzip (0.9.4)
basilmac-2:Redmine basil$ cap Deploy
```

{ Built-in Terminal }

{ Integrated Debugger }

The screenshot displays the Aptana IDE interface. The top toolbar contains icons for file operations, running, and debugging. The main workspace is divided into three panes:

- Left Pane (Project Explorer):** Shows the project structure for 'NewAptanaCom [Ruby Application]'. It includes a 'Ruby' folder with three threads: 'Ruby Thread - 1 (sleep)', 'Ruby Thread - 3 (sleep)', and 'Ruby Thread - 34 (Breakpoint at downloa)'. Below the threads, a list of files is shown, all located at '/Users/basil/Projects/Aptana/NewApt'.
- Right Pane (Variables):** Displays the current state of variables. The 'Name' column lists: 'download_user_data_email', 'studio_system', 'download_url', 'studio_version', 'controller', 'studio_arch', '@_request', '@_response', and '@_session'. The '@_session' variable is expanded, showing a long alphanumeric string: '4nGsbHN+p03pJsA51Wp3t4JGEBF403B/4J9pJ'.
- Bottom Pane (Editor):** Shows the source code of 'downloads_controller.rb'. The code includes a 'render' call for 'download'.

At the bottom, a tab for 'Basil Notes.txt' is visible.

Collaborative Coding

The screenshot displays a collaborative coding environment. On the left is a sidebar with a file explorer showing a directory structure under `/home/emred`, including folders like `Applications`, `Backup`, `Documents`, and `Web`, and files like `index.html`, `perl.pl`, `php.php`, `python.py`, `ruby.rb`, `.bash_history`, `.bashrc`, `migrate.sh`, and `README.md`. A red badge with the number '29' is visible on the sidebar. The main area contains two code editors. The top editor, `php.php`, shows PHP code for a 'Hello World' page with a title 'Hello World From php by Koding' and a link to 'Koding'. The bottom editor, `ruby.rb`, shows Ruby code for a 'Hello World' page with a title 'Hello World' and a link to 'Koding'. On the right side, there is a video chat window titled 'My Workspace' showing a woman with glasses. Below the video chat is a chat log with messages from Emre, Jess, and Nitin. At the bottom right, there is a text input field for sending messages.

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="utf-8">
5 <title>Hello World From php by Koding</title>
6 <meta name="viewport" content="width=device-width,initial-scale=1">
7 <link rel="stylesheet" href="//koding.com/hello/css/style.css">
8 <!--[if IE]>
9 <script src="//html5shiv.googlecode.com/svn/trunk/html5.js"></script>
10 <![endif]>
11 <link href="//fonts.googleapis.com/css?family=Open+Sans:300,400,600,700">
12 </head>
13 <body class="php">
14 <div id="container">
15 <div id="main" role="main" class="hellobox">
16 <header><a href="http://koding.com">Koding</a>
17 <h1><?php echo 'Hello World!'; ?>
18 </h1>
19 <h2>From PHP <?php echo PHP_VERSION; ?>
```

```
14 <link rel="stylesheet" href="//koding.com/hello/css/style.css">
15 <!--[if IE]>
16 <script src="//html5shiv.googlecode.com/svn/trunk/html5.js"></script>
17 <![endif]>
18 <link href="//fonts.googleapis.com/css?family=Open+Sans:300,400,600,700">
19 </head>
20 <body class="ruby">
21 <div id="container">
22 <div id="main" role="main" class="hellobox">
23 <header><a href="http://koding.com">Koding</a>
24 <h1>Hello World!</h1>
25 <h2>From Ruby
26 <pre>puts RUBY_VERSION
27 puts "</h2>
28 </div>
29 <nav>
30 <ul>
31 <li><a href="index.html">HTML</a></li>
```

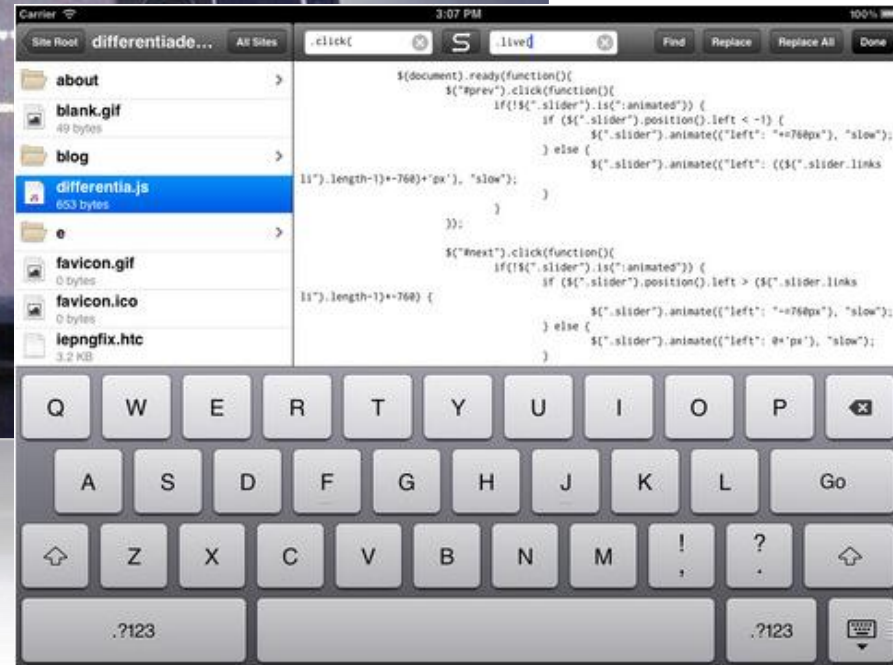
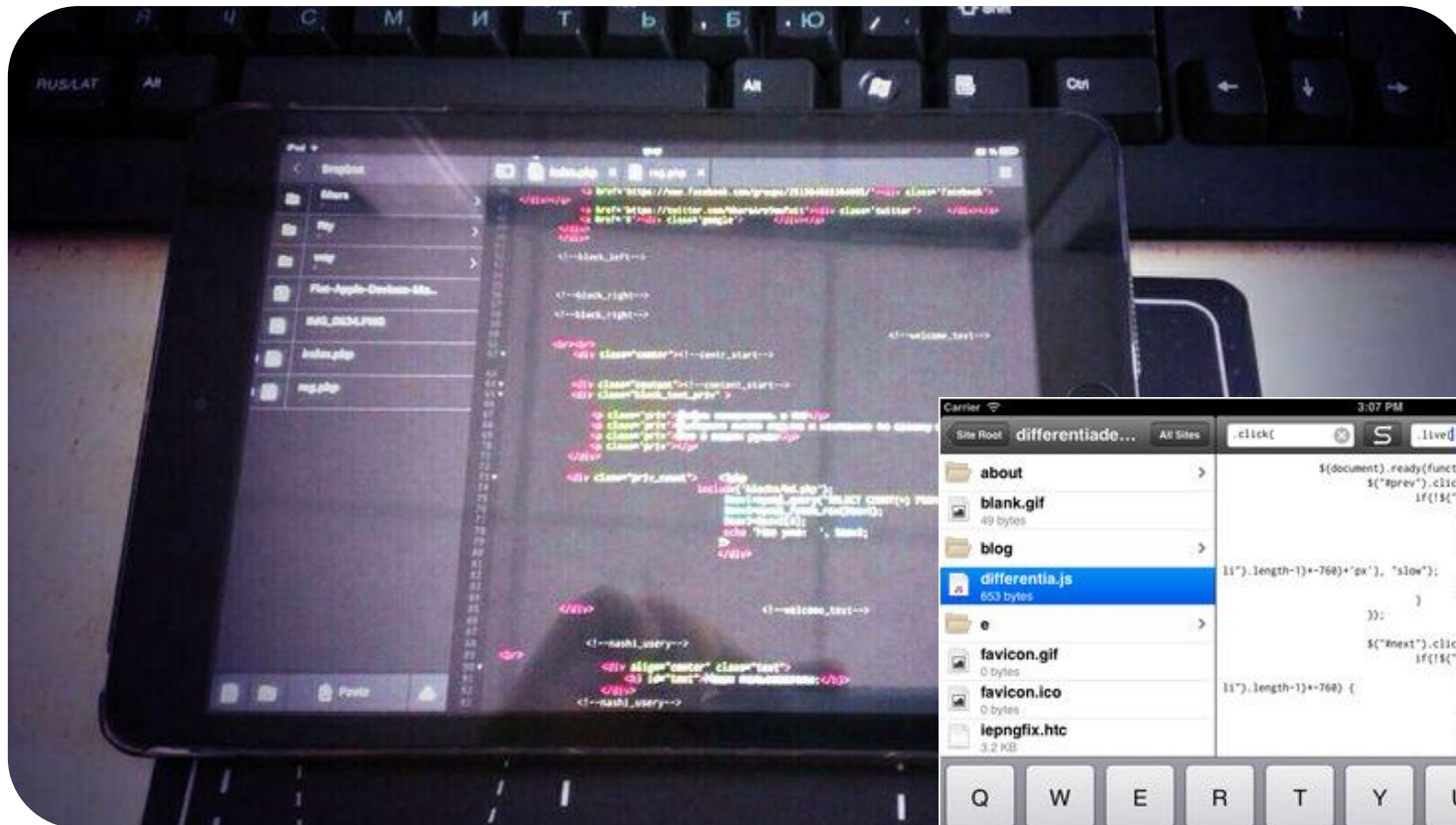
Emre - now
has joined the chat from an invitation from @Jess

Jess - 1m ago
Opened a file: `ruby.rb`

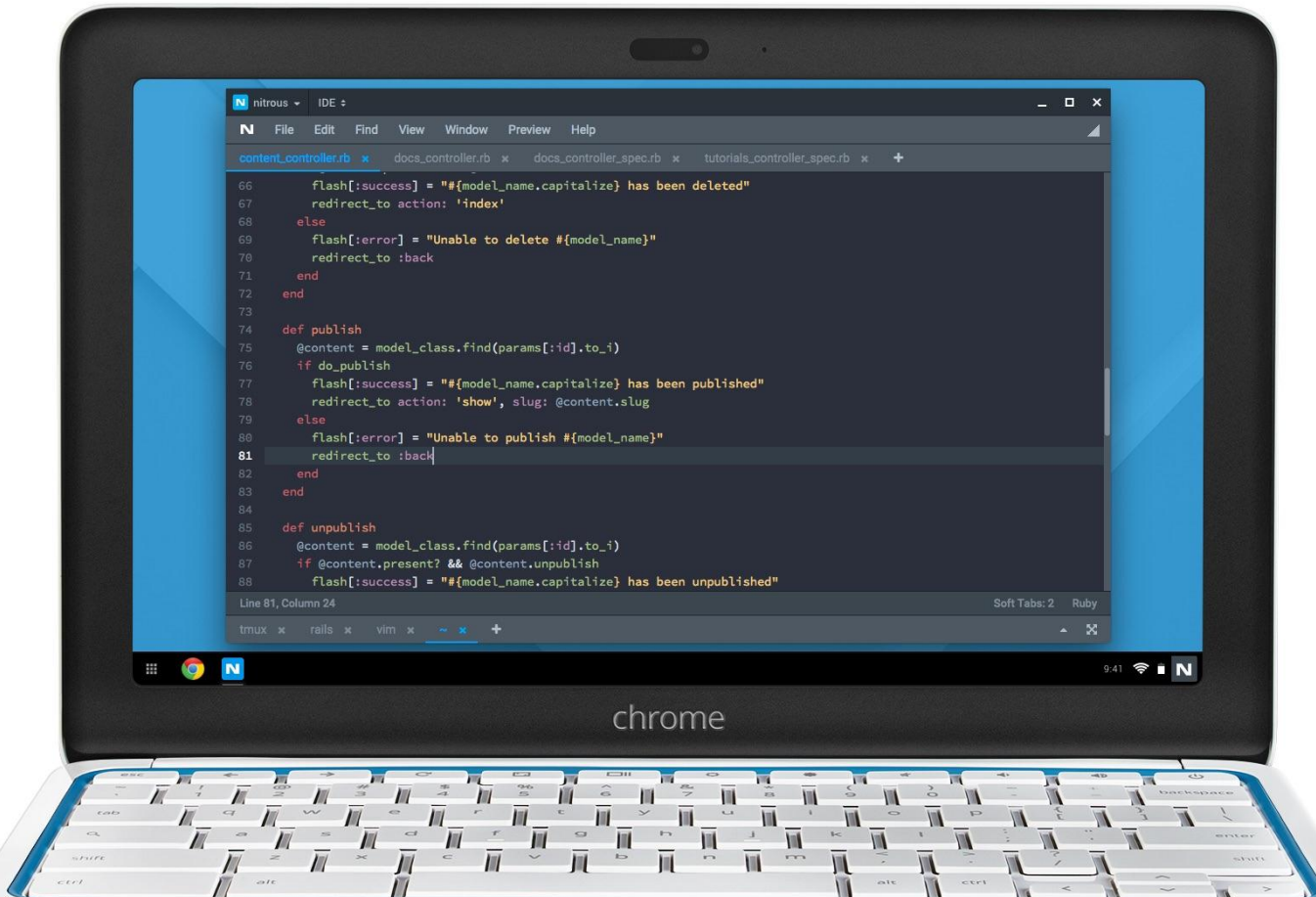
Nitin - 3m ago
has joined the chat from an invitation from @Jess

Type your message and hit enter

Coding on iPad



Coding on chromebook



Cloud based Web IDE, **what for?**

Subscription Service
Education
Standard coding tool for SI companies
Secure coding space
Outsourcing
Publishing

Next?



(photo from Time magazine)



감사합니다!