

# Development tools

Mobile Web Applications Development with HTML5

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# Tools needed

- Browser with development tools
- HTML/CSS/JS/Ruby editor
- Git client
- Ruby
- Optional: device emulators

# Browser

- With debugging tools
- Webkit-based browser recommended
  - Same engine used in most mobile devices' default browser
  - Good development tools included
  - Google Chrome or Apple Safari
- Other alternatives:
  - Firefox + Firebug
    - Test for Firefox mobile
  - Opera

# Code editor

- Any editor with support for HTML, CSS and JS
  - Ruby support for editor is optional, depending on your backend technology choice
- Aptana Studio (Win, Mac, Linux)
  - Full Eclipse-based environment with Ruby support, but quite heavy
- TextMate / TextWranger (Mac)
- Notepad++ (Windows)

# Git client

- Mac has different options:
  - Git OSX installer (<http://code.google.com/p/git-osx-installer/>)
  - Install Git with Homebrew
    - See instructions on GitHub course examples readme
  - GUIs:
    - SourceTree (<http://www.sourcetreeapp.com/>)
    - GitHub for Mac (<http://mac.github.com/>)
- Windows: msysGit (<http://code.google.com/p/msysgit/>)
- Linux: use package manager
  - eg. `sudo apt-get install git-core`

# Configuring Git for GitHub

- See GitHub instructions
  - Mac: <http://help.github.com/mac-set-up-git/>
  - Windows: <http://help.github.com/win-set-up-git/>
  - Linux: <http://help.github.com/linux-set-up-git/>
- Steps:
  1. Install a Git client
  2. Set Up SSH Keys
  3. Set Up Your Info

# Ruby

- **Ruby** version 1.8.7 or later is required for course examples that have a server-component
- **Bundler** -dependency manager also needed

# Ruby on Mac OSX

- Ruby 1.8.7 is preinstalled in Mac OSX 10.6+
    - If you want to use other version, use RVM (Ruby Version Manager) to install
1. Update RubyGems: `sudo gem update -system`
  2. Install bundler: `sudo gem install bundler`



# Ruby on Windows

1. Install Ruby **1.8.7** from [rubyinstaller.org](http://rubyinstaller.org)
  - Newer versions of Ruby do have a problem with eventmachine -gem used in the examples
2. Install Ruby Dev Tools
  - Needed for compiling native extensions for eventmachine
  - <https://github.com/oneclick/rubyinstaller/wiki/Development-Kit>
3. Install bundler: `gem install bundler`
  - To make sure the correct Ruby version is used, open command line using the “Start command prompt with Ruby” from the Ruby 1.8.7 subfolder in Start-menu

# Ruby on Linux

## 1. Use package manager to install Ruby development version

- `sudo apt-get install ruby1.9.1-dev`

## 2. Install bundler

- `sudo gem install bundler`
- Note: We have not tested on Linux, please report any problems!

# Optional: device emulators

- Device emulators enable you to test the application without a device
- Apple iOS simulator
  - Comes with XCode, install from Mac AppStore
- Android emulator comes with SDK
- Windows Phone

# Questions about tools?

Hands-on help available after the lecture