

Clojerk

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Getting **started** with **Clojure**

Start at the REPL

iclojure.com

```
curl -O -L http://clk.tc/iclojure
```

```
chmod +x iclojure
```

```
sudo mv iclojure /usr/local/bin
```

\$ iclojure

```
user[1]:(println "hello world")  
hello world
```

```
user[2]:(doc println)
```

```
user[3]:(source println)
```

Clojure Projects

leinigen

```
curl -O -L http://clk.tc/lein
```

```
chmod +x lein
```

```
sudo mv lein /usr/local/bin
```

Create project

```
lein new clojers  
cd clojers
```


src/clojerks/core.clj

```
(ns clojerks.core)
```

```
(defn greet [name]  
  (str "Hello" name))
```

```
(defn -main []  
  (println (greet "Clojerks!")))
```

Run project

```
lein run -m clojers.core
```

Editing Clojure

Emacs 24

clojure-mode

Vim

nailgun

slimv

IntelliJ

La Clojure

Eclipse

Counterclockwise

Netbeans

Enclojure

Textmate

[https://github.com/
swannodette/textmate-clojure](https://github.com/swannodette/textmate-clojure)

Sublime Text

[https://github.com/wuub/
SublimeREPL](https://github.com/wuub/SublimeREPL)

Emacs

Emacs on OS X

```
brew install emacs --HEAD
```

or

<http://emacsformacosx.com/>

Marmalade

~/.emacs.d/init.el:

```
(require 'package)
(add-to-list 'package-archives
             '("marmalade" . "http://marmalade-repo.org/packages/") t)
(package-initialize)
```

Clojure Mode

M-x package-install

clojure-mode

Clojure Swank

```
lein plugin install lein-swank "1.4.4"
```

Launch REPL

M-x clojure-jack-in

Shortcuts

<http://clk.tc/emacs-slime-keys>

Testing

Run tests

`lein test`

Write a test

```
(deftest test-greet
  (is (= "Hello Cosmin"
        (greet "Cosmin"))))
```

clojure-test-mode

run tests => C-c ,

run one test => C-c M-,

Further considerations

Lein IClojure

static code analyzer
write more idiomatic clojure

```
lein plugin install iclojure 1.0  
iclojure
```

JVM Options

in project.clj

```
:jvm-opts ["-Xmx1g" "-server"]
```


Kibit

static code analyzer
write more idiomatic clojure

```
lein plugin install jonase/kibit 0.0.3  
lein kibit
```

Pomegranate

add deps directly from the repl

[https://github.com/cemerick/
pomegranate](https://github.com/cemerick/pomegranate)

Thanks!