Compojure

- Webframework for Clojure
- Similar to Sinatra
- Thin and modular
- Lacking in documentation
- 0.4 not final yet

Hello World

```
(ns pres1
  (:use compojure.core, ring.adapter.jetty))

(defroutes my-routes
  (GET "/" [] "hello"))

(run-jetty my-routes {:port 8888})
```

Zero turnaround

```
(run-jetty webservice {:join? False
                       :port 8888})
```

HTML rendering

```
(defn make-list [val]
  (html [:li val]))

(defn print-list [alist]
  (html
    [:h2
    (map make-list alist)]))

(defroutes my-routes
  (GET "/list" [] (print-list (list "micke" "petra" "algot" "simon"))))
```

HTML rendering

```
pres5=> (html [:font {:color "blue"} [:h1 "hej"]])

"<font color=\"blue\"><h1>hej</h1></font>"

user=> (html [:div#foo.bar.baz "bang"])
"<div id=\"foo\" class=\"bar baz\">bang</div>"
```

Simple formhandling

```
(defn login []
 (html
   (form-to [:post "/do"]
     "Please Login"
     [:br]
     (text-field :username)
     [:br]
     (password-field :pass)
     [:br]
     (submit-button "Login")
     (reset-button "reset"))))
```

Simple formhandling

```
(defroutes my-routes
  (GET "/" [] (login))
  (ANY  "/do" {params :params} (do-login :session params))
  (ANY "/verify" {session :session} (validate session)))

(defn do-login [session params]
  {:body (str "logged in: " (params "username" ))
   :session {:username (params "username") :pass (params
"pass")}})

(defn validate [session]
    (if (empty? (:username session))
     (html [:h1 "please login"])
    (html [:h1 (str "welcomme: " (:username session))])))
```

Named parameters

```
(defroutes my-routes
  (GET "/primes/:num" [num] (print-primes num)))
```

http://localhost:8888/primes/23424234

Named parameters

```
(defroutes my-routes
  (GET "/primes/:num/:color" [num color] (print-primes num color)))
```

http://localhost:8888/primes/23424234/blue

csslj

```
user=> (println (css
       [:div#body {:background-color "#FFFFFF" :color "#000000"}]
       [:span.h {:color "#FFFF00"}]
       [:h1.header {:font-size "22px" :color "#FF0000"}]
       [:h1 :a {:text-decoration "none"}]))
div#body {
background-color: #FFFFFF;
color: #000000;
}
span.h {
color: #FFFF00;
}
h1.header {
color: #FF0000;
font-size: 22px;
}
h1 a {
text-decoration: none;
}
```