ClojureScript Cheat Sheet http://github.com/clojure/clojurescript

Documentation

http://github.com/clojure/clojurescript/wiki

Listing 1: Example Namespace Declaration

```
(ns my-cool-lib
  (:require [some-lib :as lib])
  (:use [another-lib :only (a-func)])
  (:require-macros [my.macros :as macs])
  (:use-macros [mo.macs :only (my-mac)]))
```

Rich Data Literals

Maps:	{:key1 :val1, :key2 :val2}
Vectors:	[1 2 3 4 :a :b :c 1 2]
Sets:	#{:a :b :c 1 2 3}
Truth and nullity:	true, false, nil
Keywords:	:kw, :a-2, :prefix/kw, ::pi
Symbols:	sym, sym-2, prefix/sym
Characters:	\a, \u1123, \space
Numbers/Strings:	same as in JavaScript

Frequently Used Functions

rrequently Osed	runctions
Math:	+ - * / quot rem mod inc
Comparison:	= == not= < > <= >=
Tests:	<pre>nil? identical? zero?</pre>
	pos? neg? even? odd?
	true? false? nil?
Keywords:	keyword keyword?
Symbols:	symbol symbol? gensym
Data Processing:	map reduce filter
	partition split-at
	split-with
Data Create:	vector vec hash-map set
	list list* for
Data Examination:	first rest count get nth
	get get-in contains? find
	keys vals
Data Manipulation:	seq into conj cons
	assoc assoc-in dissoc
	zipmap merge merge-with
	select-keys update-in
Arrays:	into-array to-array aget

More information

http://clojuredocs.org

aset amap areduce alength

Frequently Used Macros

Defining:	defmacro
Macros:	<pre>if if-let cond and or -> ->> doto when when-let</pre>
Implementation:	Must be written in Clojure
Emission:	Must emit ClojureScript

Abstraction (http://clojure.org/protocols)

Protocols

Definition: (defprotocol Slicey (slice

[at]))

Extend: (extend-type js/String Slicey

(slice [at] ...))

Extend null: (extend-type nil Slicey (slice

[_] nil))

Reify: (reify Slicey (slice [at] ...))

Records

Definition: (defrecord Pair [h t])
Access: (:h (Pair. 1 2));=> 1
Constructing: Pair. ->Pair map->Pair

Types

Definition: (deftype Pair [h t])
Access: (.-h (Pair. 1 2));=> 1

Constructing: Pair. ->Pair

 $\operatorname{With} \operatorname{Method}(s)$: (deftype Pair [h t] Object

(toString [] ...))

Multimethods

Definition: (defmulti my-mm

dispatch-function)

Method Define: (defmethod my-mm

:dispatch-value [args] ...)

JS Interop (http://fogus.me/cljs-js)

Method Call: (.meth obj args)
Method Call: (. obj (meth args))
Proporty Aggest: (. obj men)

Property Access: (. obj -prop)
Property Access: (.-prop obj)

Set Property: (set! (.-prop obj) val)

JS Global Access: js/window

JS this: (this-as me (.method me))

Create JS Object: (js-obj)

Compilation (http://fogus.me/cljsc)

cljsc src-home

Simple Compile: '{:optimizations :simple

:pretty-print true}'

cljsc src-home

Advanced Compile: '{:optimizations

:advanced}'

Extra ClojureScript Libraries

clojure.{string set zipper}

clojure.browser.{dom event net repl}

Other Useful Libraries

App Sample:	http://clojurescriptone.com
Client/Server:	$\rm http://github.com/ibdknox/fetch$
Data Viz:	http://github.com/lynaghk/cljs-d3
DOM:	$\rm http://github.com/levand/domina$
jQuery:	http://github.com/ibdknox/jayq
Templating:	http://github.com/ibdknox/crate

\$Revision: 1.0, \$Date: Feb 08, 2012 Fogus (fogus -at- clojure -dot- com)