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

Documentation

http://github.com/clojure/clojurescript/wiki http://himera.herokuapp.com/synonym.html

http://clojuredocs.org (coming...)

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

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

Frequently Used Functions & Macros

Functions

Math: + - * / quot rem mod inc dec max min

Comparison: = == not= < > <= >=

Tests: nil? identical? zero?

pos? neg? even? odd?

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 aset amap areduce alength

Macros

Defining: defmacro

Extra ClojureScript Libraries

clojure.{string set zipper}

clojure.browser.{dom event net repl}

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

Protocols

Extend:

Definition: (defprotocol Slicey

(slice [at]))
(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

With 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)

(. obj (meth args))

Property Access: (.-prop obj)

(. obj -prop)

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

(aset obj prop-str val)

(aset obj prop-str v

Set Array element: (aset arr idx val)

JS Global Access: js/window

 ${
m JS}$ this: (this-as me (.method me))

Create JS Object: (js-obj)

Create JS Array: (array var-args)

(make-array size)

Transf. JS value: (js->clj js-val)

Transf. CLJ value: (clj->js clj-val)

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

cljsc src-home

Compile: '{:optimizations :simple

:pretty-print true}'

Adv. Compile: cljsc src-home

'{:optimizations :advanced}'

Other Useful Libraries

Lein build: https://github.com/emezeske/lein-

cljsbuild

Client/Server: http://github.com/cemerick/shoreleave-

remote-ring

DOM: http://github.com/levand/domina jQuery: http://github.com/ibdknox/jayq

jQuery: http://github.com/ibdknox/jayq
Templating: https://github.com/Prismatic/dommy

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