Heow Goodman

LispNYC.org

Brandorr Group, LLC

OK

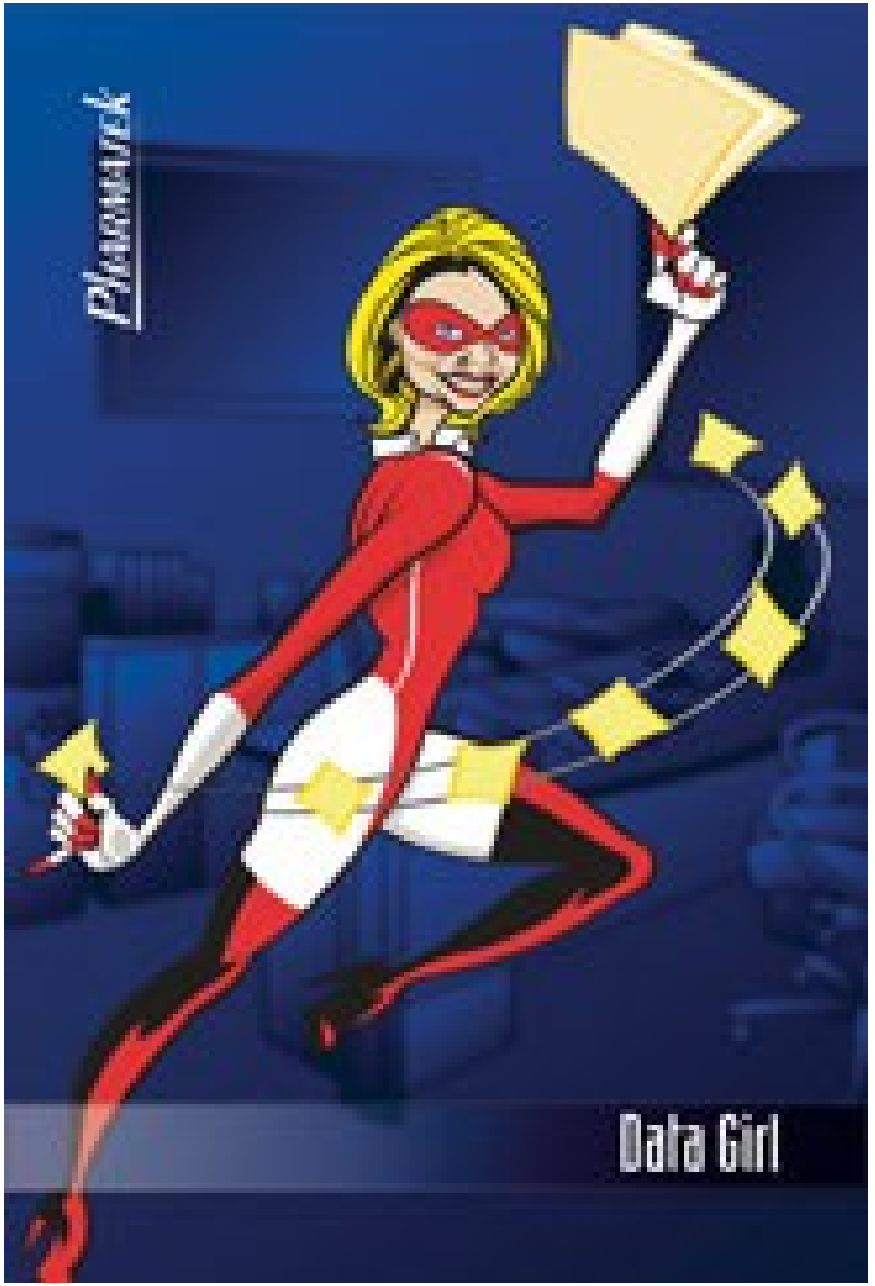
Are you happy?

yes

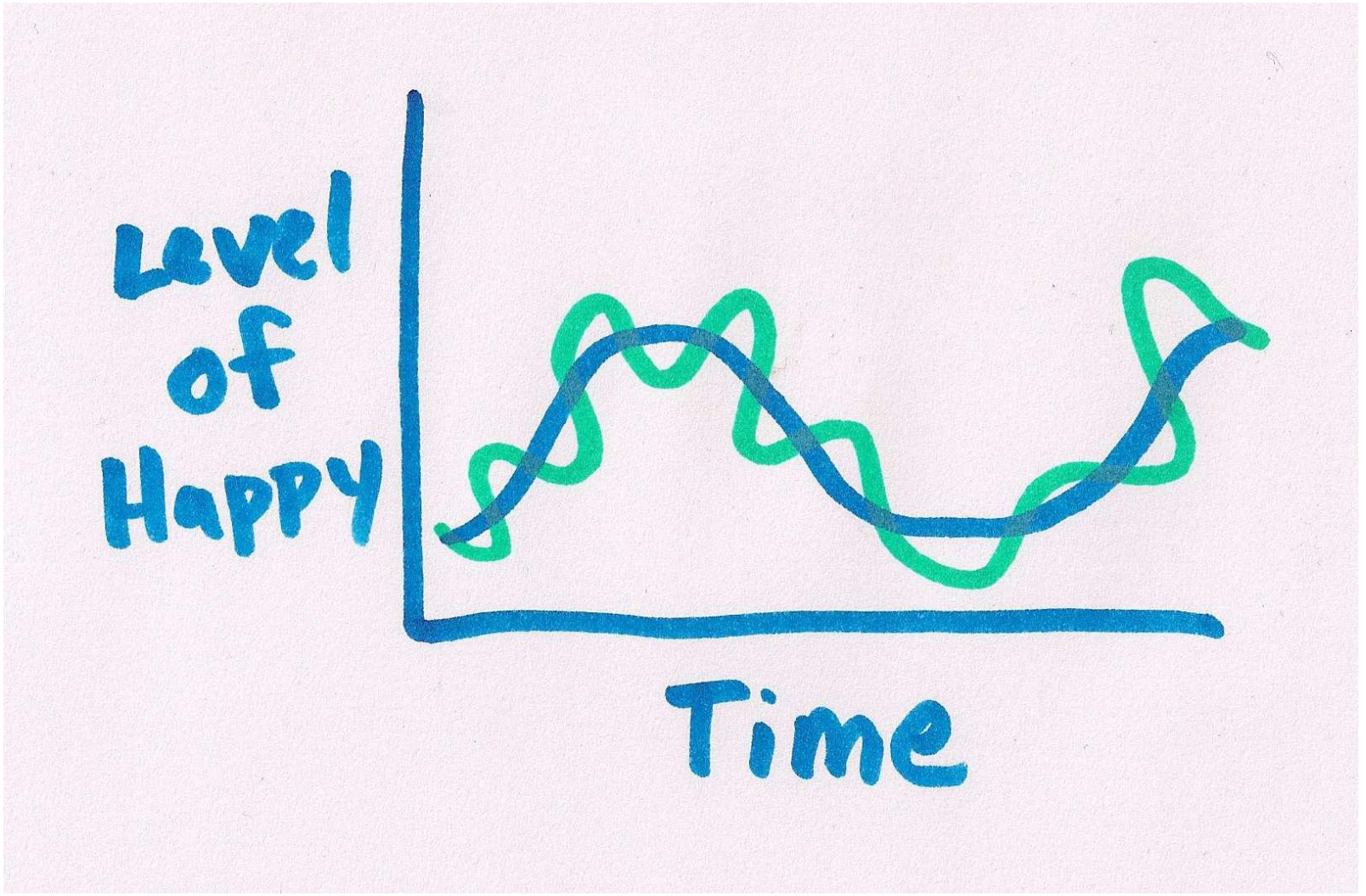
Are you really happy?

I'm happy

How happy are you?


Pharmatek
Data Girl

Quantifying happiness


Level of Happy
Time

Quantify Happiness

Her Goal

- happiness over time
- easy to use
- anywhere

My Goal

Mixed Couple

Simple Webapp

“Cost” of Yet Another Host

- initial setup
- maintenance
- security updates
- AWS setup
- monitoring
- pages
- mental price
- monetary cost: nil

Simple Webapp

Heroku

- simple
- just the app
- you DON'T manage:
  - host failures
  - datacenter failures
  - security
  - host updates

Heroku Development

heroku

World Wide Web

The WorldWideWeb (W3) is a wide-area hypermedia information retrieval initiative aiming to give universal access to a large universe of documents.

Everything there is online about W3 is linked directly or indirectly to this document, including an executive summary of the project, Mailing lists , Policy , November's W3 news , Frequently Asked Questions .

What's out there?
Pointers to the world's online information, subjects , W3 servers, etc.
Help
on the browser you are using
Software Products
A list of W3 project components and their current state. (e.g. Line Mode ,X11 Viola , NeXTStep , Servers , Tools , Mail robot , Library)
Technical
Details of protocols, formats, program internals etc
Bibliography
Paper documentation on W3 and references.
People
A list of some people involved in the project.
History
A summary of the history of the project.
How can I help ?
If you would like to support the web..
Getting code
Getting the code by anonymous FTP , etc.

Amazon Web Services

EC2
Virtual Servers in the Cloud

SQS
Message Queue Service

S3
Scalable Storage in the Cloud

Elastic MapReduce
Managed Hadoop Framework

RDS
Managed Relational Database Service

SNS
Push Notification Service

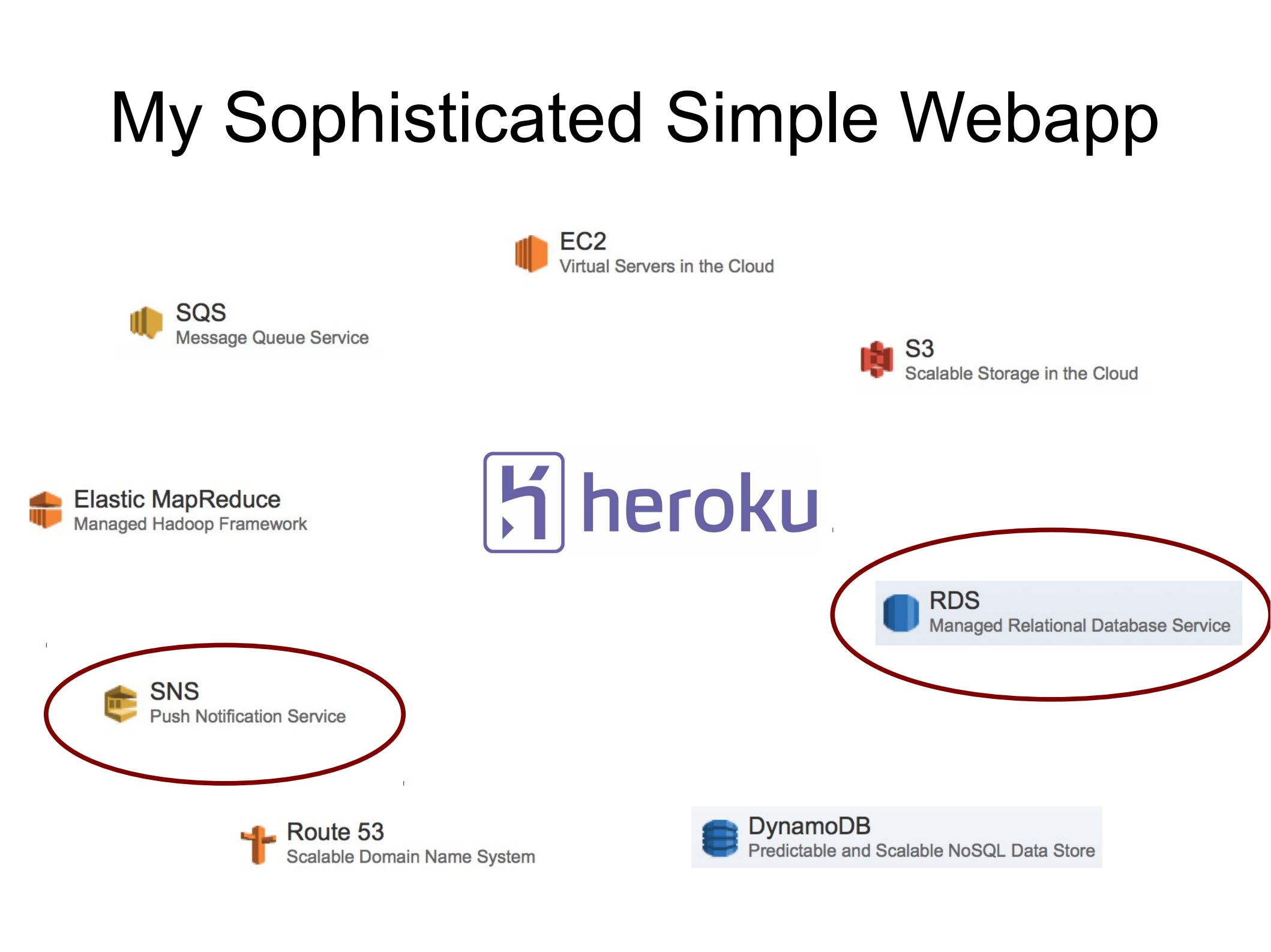
Route 53
Scalable Domain Name System

DynamoDB
Predictable and Scalable NoSQL Data Store

My Simple Webapp

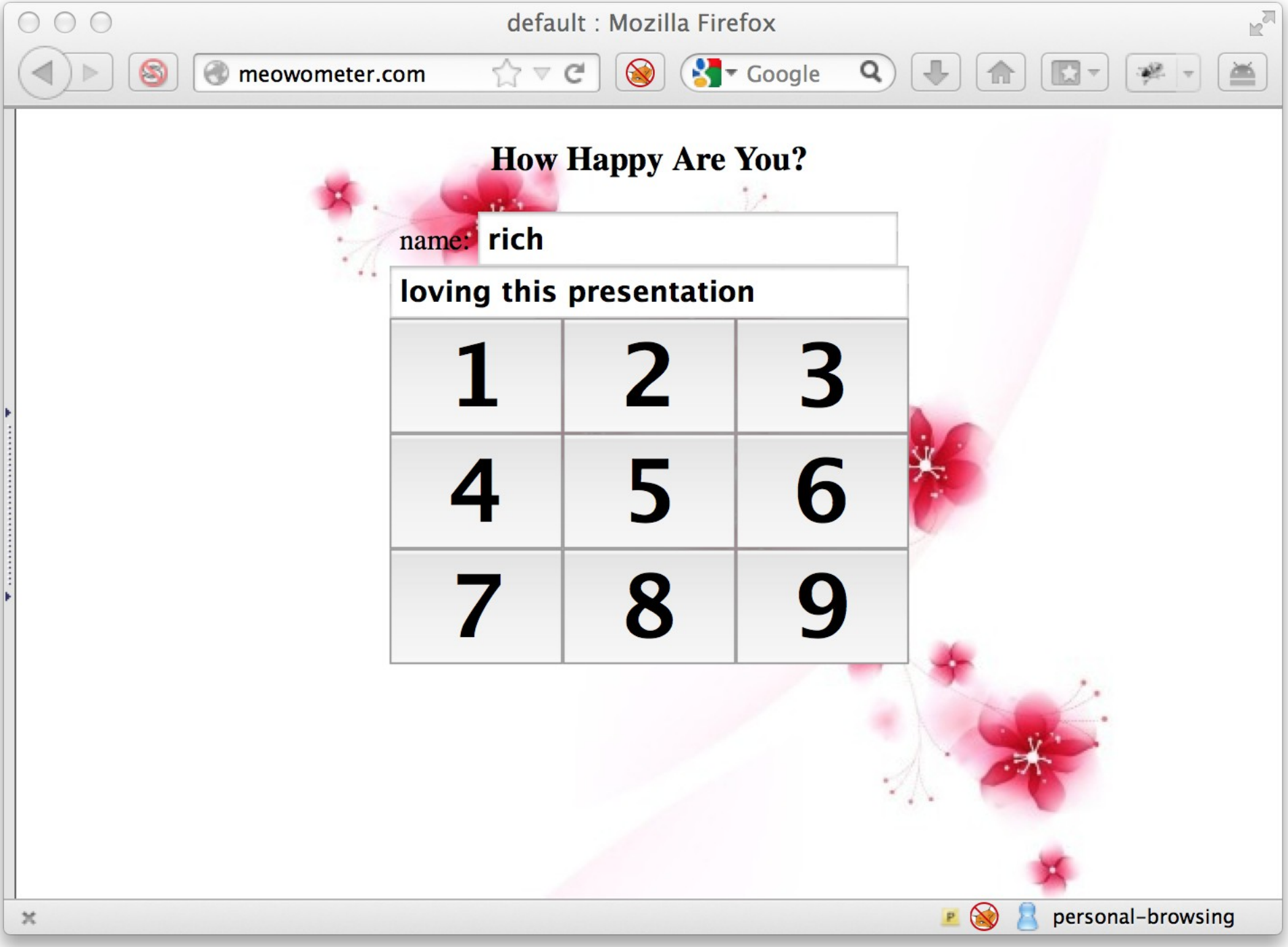
- collect data
- store data
- collection reminders

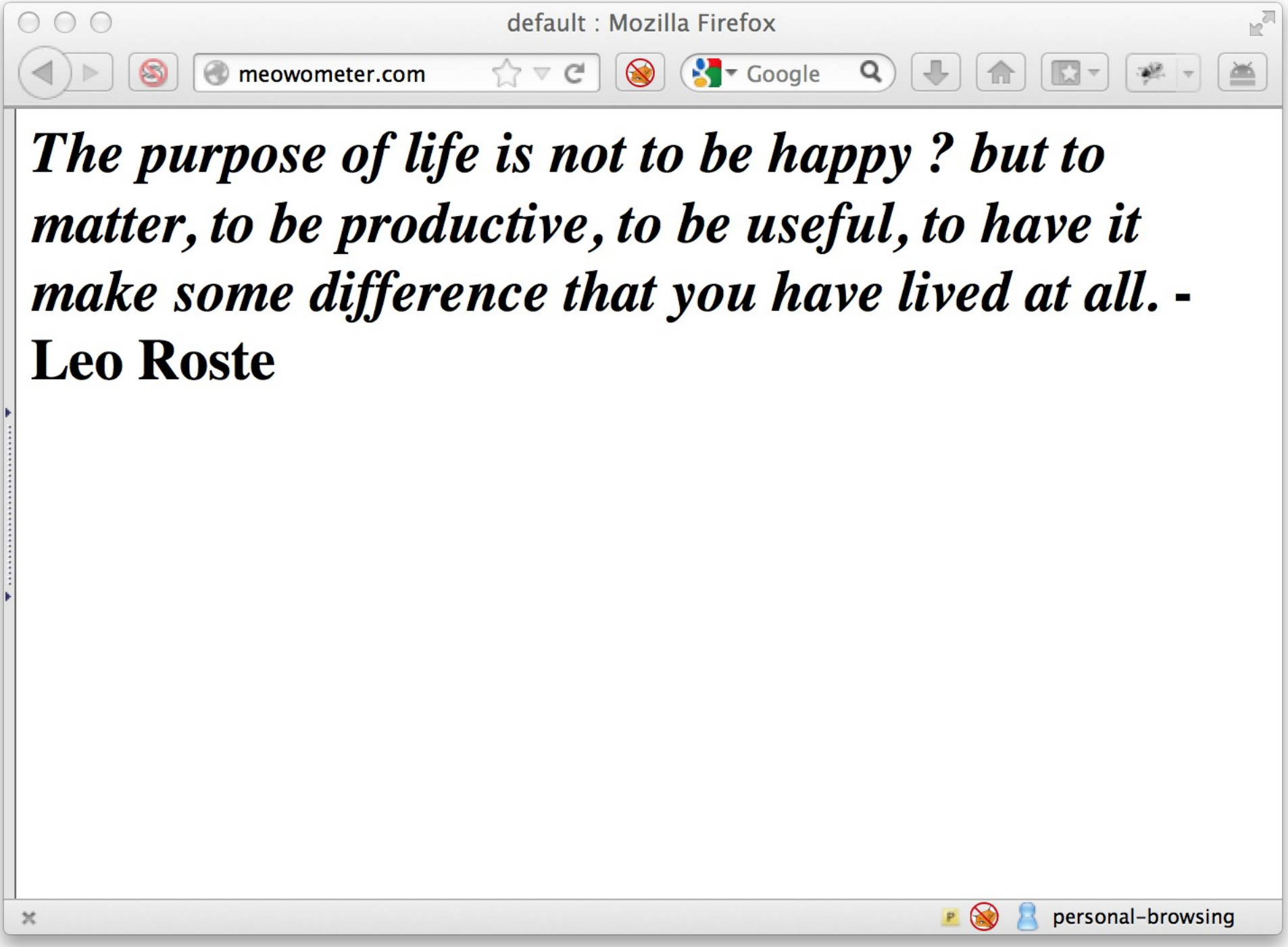
My Sophisticated Simple Webapp

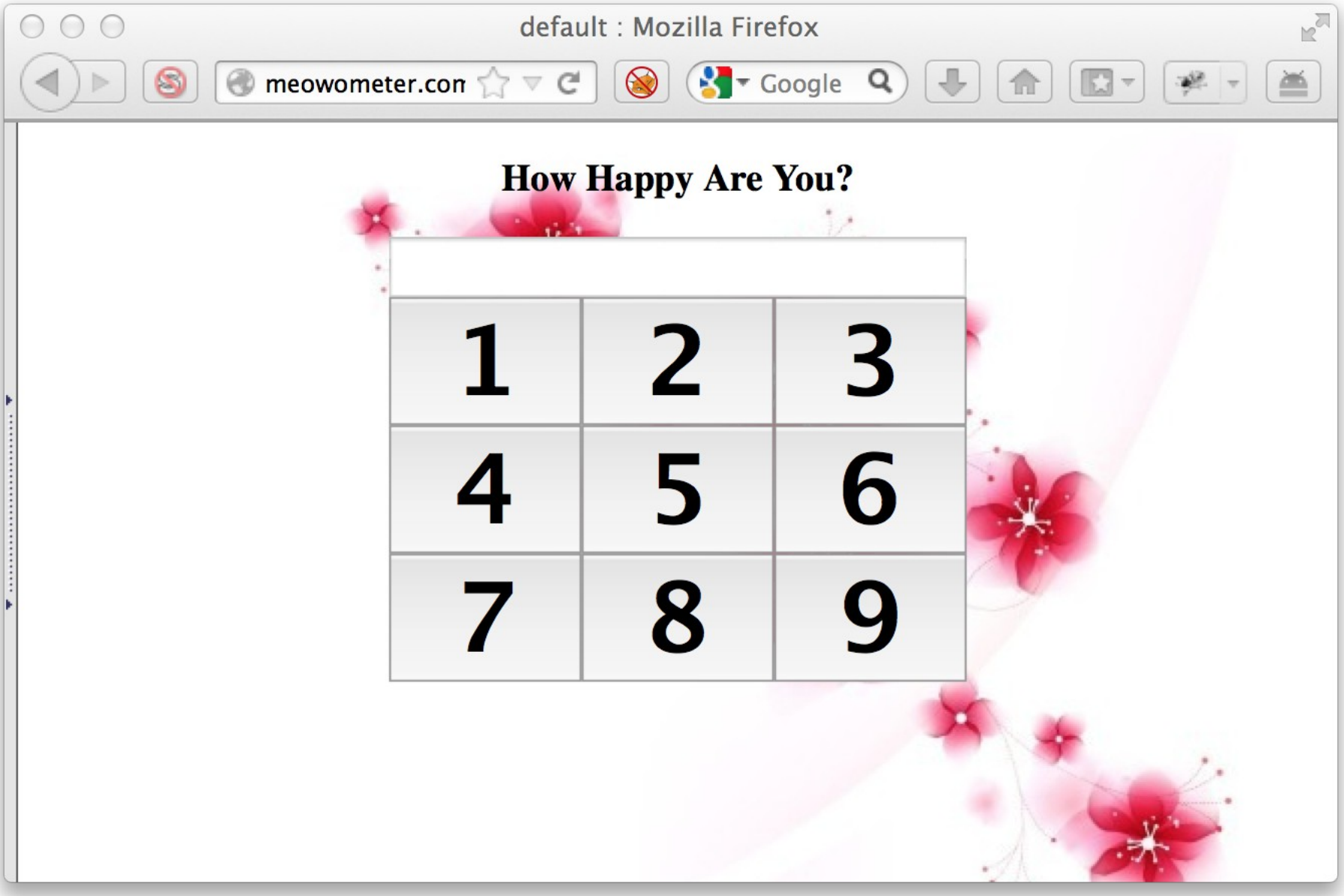


Meow o Meter . com

- total time: 4 hours
- maintenance: 0


default : Mozilla Firefox
meowometer.com
Google
How Happy Are You?
name: rich
loving this presentation
1
2
3
4
5
6
7
8
9
personal-browsing


default : Mozilla Firefox
meowometer.com
Google
The purpose of life is not to be happy ? but to matter, to be productive, to be useful, to have it make some difference that you have lived at all. - Leo Roste
personal-browsing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meowometer.com
Google
How Happy Are You?
1
2
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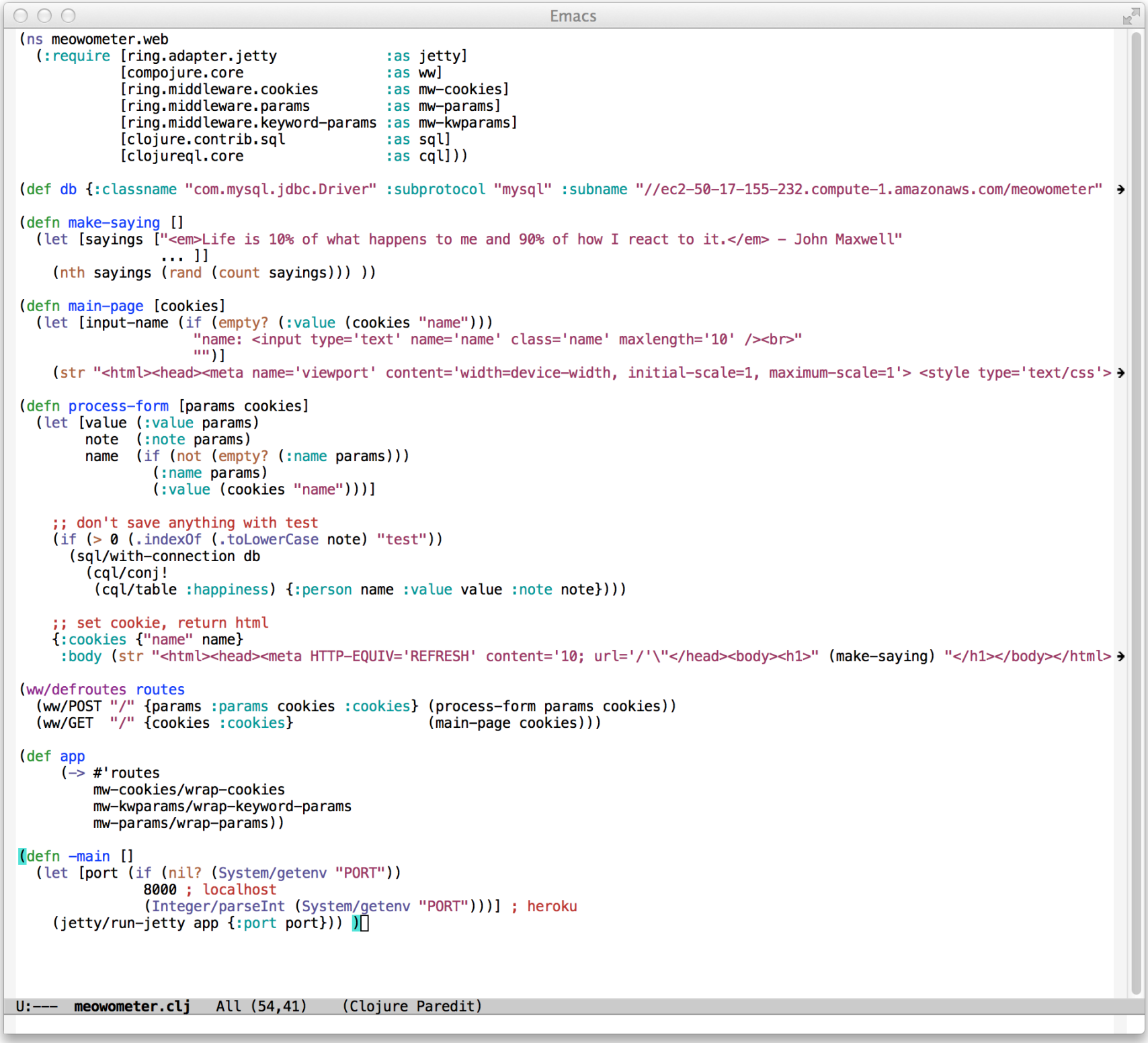
Emacs
(ns meowometer.web
(:require [ring.adapter.jetty :as jetty]
[compojure.core :as ww]
[ring.middleware.cookies :as mw-cookies]
[ring.middleware.params :as mw-params]
[ring.middleware.keyword-params :as mw-kwparams]
[clojure.contrib.sql :as sql]
[clojureql.core :as cql]))
(def db {:classname "com.mysql.jdbc.Driver" :subprotocol "mysql" :subname "//ec2-50-17-155-232.compute-1.amazonaws.com/meowometer"
(defn make-saying []
(let [sayings ["Life is 10% of what happens to me and 90% of how I react to it. - John Maxwell"
...]]
(nth sayings (rand (count sayings)))))
(defn main-page [cookies]
(let [input-name (if (empty? (:value (cookies "name")))
"name: <input type='text' name='name' class='name' maxlength='10' />
"
"")]
(str "<html><head><meta name='viewport' content='width=device-width, initial-scale=1, maximum-scale=1'> <style type='text/css'>
(defn process-form [params cookies]
(let [value (:value params)
note (:note params)
name (if (not (empty? (:name params)))
(:name params)
(:value (cookies "name")))]
;; don't save anything with test
(if (> 0 (.indexOf (.toLowerCase note) "test"))
(sql/with-connection db
(cql/conj!
(cql/table :happiness) {:person name :value value :note note})))
;; set cookie, return html
{:cookies {"name" name}
:body (str "<html><head><meta HTTP-EQUIV='REFRESH' content='10; url='/'\"</head><body><h1>" (make-saying) "</h1></body></html>
(ww/defroutes routes
(ww/POST "/" {params :params cookies :cookies} (process-form params cookies))
(ww/GET "/" {cookies :cookies} (main-page cookies)))
(def app
(-> #'routes
mw-cookies/wrap-cookies
mw-kwparams/wrap-keyword-params
mw-params/wrap-params))
(defn -main []
(let [port (if (nil? (System/getenv "PORT"))
8000 ; localhost
(Integer/parseInt (System/getenv "PORT")))] ; heroku
(jetty/run-jetty app {:port port})))
U:--- meowometer.clj All (54,41) (Clojure Paredit)

Moral of the story

- simple services
- TCO matters
- use infrastructure
- not every server-side project requires a server
- I'm really happy

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