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# Radiance - A Web Application Environment for Common Lisp

# Usual Framework Focus

- Single application
- Tightly integrated
- Convenience through large toolsets

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- Single application
- Tightly integrated
- Convenience through large toolsets
- Often force libraries on you
- Problematic to host multiple applications

# Radiance's Goals

- Many applications simultaneously
- Shared resources
- Exchangeable parts
- Only use what you want

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- Many applications simultaneously
- Shared resources
- Exchangeable parts
- Only use what you want
- Fully specified

# A Tiny Example

- ☐ option: Pizza votes: 32
- ☐ option: Pasta votes: 4
- ☐ option: Lasagna votes: 12
- ☐ option: Crêpes votes: 9
- ☐ option: Mashed Potatoes votes: 2

Submit



```
(in-package #:rad-user)
(db:create 'vote '((option (:varchar 32))
                   (votes :integer)))

(define-page display #@"/" ()
  (r-forms:choose
    #@"/api/vote" "id"
    (dm:get 'vote (db:query :all))))

(define-api vote (id) ()
  (with-model-save model ('vote (:= '_id id))
    (votes)
    (incf votes))
  (redirect #@"/")
  (api-output "Vote registered."))
```

```
(define-interface (database db)
  (defun create (collection structure
                 &key indices if-exists))
  (defmacro query (query-form))
  ...))

(define-interface (data-model dm)
  (defun get (collection query
             &key (skip 0) (amount 0) sort))
  ...))
```

```
(define-module #:my-database
  (:use #:cl)
  (:implements #:database))
(in-package #:my-database)
```

```
(defun db:create (database db
                  &key indices if-exists)
  ...)
```

```
(defmacro db:query (query-form)
  ...)
```

```
...
```

# What Radiance Offers

Modules

Interfaces

Request handling

URIs

URI Patterns

Resources

Bidirectional Routing

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Sessions

User storage

User profiles

Logging

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DB abstractions

Templating

Error handling

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Chatlog

Blog software

File hosting

Imageboard

Database introspection

## 妖怪の世捨て人

Ramblings about stag beetles and lisp

### A Not So Brief Update - Confession 50

2015.02.22

It's been a while since I've made a blog about my personal life, even though I recall promising that I would. So, I suppose it can't hurt to quickly summarise what's been going on, and what will most likely be going on in the near future.



### Using CL+Qt - Confession 49

2015.02.12

Some deem it unfortunate, others are not bothered by it at all, but the fact remains that Common Lisp does not have a standard GUI toolkit. It does have a native toolkit called [McCLIM](#), but due to general outdated-ness it is not a very attractive choice. Generally I'm not one to linger long on decisions when it comes to learning something, so after quickly evaluating the options I chose to try [CommonQt](#), a library to allow using the [Qt](#) framework with CL.



### Memoirs of a Lost Girl - Entry No. 7

2015.02.09

It has been a long time since I've had the chance to write an entry. A lot has happened – too much to think about, let alone put it into words. Many a thing that I've experienced is still strange and foreign to me, as if from a bad dream.


### Running Tests in CL - Confession 48

2015.01.31

# Paste Service

## Plaster

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### Titter Client

Posted by [shimmera](#) on 2015.02.12 17:21:14 as Common Lisp.

```
1 (ql:quickload '(:chirp :qtools))
2
3 (defpackage #:titter
4   (:use #:cl+qt)
5   (:export #:main))
6 (in-package #:titter)
7 (named-readtables:in-readtable :qtools)
8
9 (defvar *logged-in* NIL)
10
11 (defun set-url (widget)
12   (let ((url (chirp:initiate-authentication
13             :api-key "DlpMCKl7g110bQ6orBPS0w"
14             :api-secret "BfkvKRRRMoBpKtDYAAOPW4s2G9U8Z7u3KaF0dBUA"))))
15     (#_setText widget (format NIL "Please enter the pin from <a href=\"-a\">twitter</a>." url))))
16
17 (define-widget login (QDialog)
18   ())
19
20 (define-subwidget (login url) (#_new QLabel login)
21   (#_setTextFormat url (#_Qt::RichText))
22   (#_setTextInteractionFlags url (#_Qt::TextBrowserInteraction))
23   (#_setOpenExternalLinks url T)
24   (set-url url))
25
26 (define-subwidget (login pin) (#_new QLineEdit login)
27   (#_setPlaceholderText pin "PIN"))
28
```

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### Annotations

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# Imageboard

Frontpage UCP Fabulous Gmt Stc

Default Find here... Search

Fabulous



# shinmera Title 2015.03.18 18:37:03


Choose Files No f...sen

Markup Help

Make Thread

View Jump to Bottom Reply

#44940 by Sucky **Book Thread** 2015.03.14 15:12:50



[220px-A Canticle For Le...](#)


This is book thread. Tell us why we should bother reading the book you post.

A Canticle for Leibowitz is the most significant sci-fi I have read. It explores the world after a nuclear holocaust and traces its build up similar to the Roman empire, with a monastery named after a man who was burned for trying to protect the knowledge of the old world, Leibowitz. This book reads easily with the exception of the really odd Jewish reflection near the middle that doesn't seem to tie into anything. A must read for... anyone.

Edit Delete Purge

#44941 by minty **false** 2015.03.16 22:47:19

[book.jpeg](#)



i have been trying to read this, although i barely have time to do much of anything at the moment. it's midterm week n i have an essay due wednesday. still... i'm at chapter 42 and so far, it's awesome. i especially like the section on the barbery pirates n preble

# Radiance

<https://github.com/Shirakumo/radiance>

```
(ql-dist:install-dist  
  "http://dist.tymoon.eu/shirakumo.txt")  
(ql:quickload :radiance)  
(radiance:startup)
```