Racketeering 101

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```
1  #lang racket
2  (require pict/littlebear)
3  (meow)
```

Welcome to DrRacket, version 6.10.1 [3m].
Language: racket, with debugging; memory limit: 256 MB.

> |

Determine language from source▾   4:2   357.97 MB

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Q. How to .... ?

- Install a package from source

- Change the code

- Render documentation

- Run tests

Step 0: Getting Started

- Download Racket

  ○ **download.racket-lang.org**

- Locate **raco**

- Choose a package to edit

  ○ Let **<PKG> = pict**

Step 1: Install package from source

- `raco pkg update --catalog <URL> <PKG>`

- `raco pkg update --clone <PKG>`

  - `<URL> = https://pkgs.racket-lang.org`

Step 1.5: Connect source to GitHub

- Fork `<PKG>` on GitHub

- `git remote add fork <FORK-URL>`

- `git checkout -b <BRANCH-NAME>`

Step 2: Find & edit the code

- Search under `<PKG>-lib`

- In DrRacket: "Open Defining File"

- `raco fc <PKG>`

    ◦ `raco pkg install raco-find-collection`

Step 3: Edit the Documentation

- To view: `raco docs <PKG>`

- To edit: `<PKG>-doc/**/scribblings`

- To build: `raco setup <PKG>`

Step 4: Run tests

- `raco test -c <PKG>`

Reference

- `raco pkg update --catalog <URL> <PKG>`

  ○ `<URL> =` **https://pkgs.racket-lang.org**

- `raco pkg update --clone <PKG>`

- `raco setup <PKG>`

- `raco test -c <PKG>`

See **https://tinyurl.com/racketeering101**

Install a new package

```
raco pkg install --clone <PKG>
```

Test with "standard" settings

```
raco test --drdr -c <PKG>
```

Build docs and index

```
raco setup --doc-index <PKG>
```

Update a pull request

```
git commit -m "new stuff"

git push fork <MY-BRANCH>
```

Build Racket from source

- `git clone https://github.com/racket/racket`

- `cd racket`

- `make`

- `mkdir extra-pkgs`

What's in racket/racket ?

- **racket/class**

- **racket/contract**

- **racket/list**

- **racket/logging**

- **racket/match**

- **racket/system**

- ....

What's in the racket GitHub org.?

- `htdp`

- `math`

- `plot`

- `redex`

- `slideshow`

- `typed-racket`

- ....

What's on the package server?

- **adjutor**

- **dan-scheme**

- **debug-repl**

- **html-parsing**

- **frog**

- **pollen**

- **syntax-sloc**

- ....

Where's the source for the package server?

https://github.com/tonyg/racket-pkg-server

Where's the source for the Racket website?

https://github.com/racket/racket-lang-org