

Owning Your Stuff (Escaping from Development Dependency Hell)

Tim Sutton, Montreal (YUL)
Sauce Labs

21/01/2015

MAIS POURQUOI YUL?

Qui dit YUL, dit Montréal. Le code de l'aéroport est aussi branché à Montréal que LAX est pour Los Angeles, ces trois lettres sont presque devenues une marque de commerce en soi. Mais d'où vient ce YUL? Pourquoi l'aéroport international situé à Dorval porte-t-il cette désignation?

CATÉGORIES

- Actualité
- Histoire
- toponymie
- Urbanisme

ÉTIQUETTES

- aéroport
- Antenne
- Beacon
- Dorval
- Kirkland
- Mirabel



[http://proposmontreal.com/index.php/mais-pourquo...yul/](http://proposmontreal.com/index.php/mais-pourquoi-yul/)



[View waymark gallery](#)



Montreal NDB UL - Kirkland, QC, Canada

in [Ground Based Air Navigation Support Structures](#)

Posted by: denben

N 45° 27.606 W 073° 50.817

18T E 590147 N 5034710

Quick Description: Montreal NDB UL is located in Kirkland, an on-island suburb on the Island of Montreal in southwestern Québec, Canada.

Location: Québec, Canada

Date Posted: 10/28/2017 9:22:56 AM

Waymark Code: WMWY12

Published By: fi67

Views: 25

Download this waymark:

[.GPX File](#)

[.LOC File](#)

[.KML File \(Google Earth\)](#)

Long Description:

Radio aid to air navigation, this beacon continually emits the letters UL in morse (Dididah Didahdidit) on the LF frequency of 248 kHz.

It is owned and maintained by Nav Canada and is in a straight line with runway 10 at Montreal / Pierre Elliott Trudeau International Airport (YUL) (3.5 nautical miles from the runway threshold).

Name: Montreal NDB

Identifier: UL (... .-.)

Frequency: 248 KHz

Location: 45.459999, -73.848297

Intended use: high- and low-level enroute navigation (medium power)

Country: Canada

Associated airport: Montreal / Pierre Elliott Trudeau International Airport

[gallery](#)

Date Posted: 10/28/2017 9:22:56 AM

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[rth\)](#)

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saucelabs.com/beta/manual

Access Real Devices Automation

Help

Tim Sutton

SAUCELABS

Dashboard

Live Testing

Tunnels **1 ACTIVE**

Analytics

Archives

0 / 100 concurrent sessions

Web Browser

Mobile App

Desktop

Mobile Device

TEST URL: whatsmysbrowser.org

Real Devices

Virtual Device

Please select your device. Can't find your device listed? [Let us know!](#)

MANUFACTURER: Apple

DEVICE: iPhone X Simulator

OS VERSION: iOS 11.3

SAUCE CONNECT PROXY (optional): timsutton/33bb169fe59845c281057f7061ebfb59

Recent

Saved

whatsmysbrowser.org
Google Chrome 67
macOS High Sierra
1024 x 768

whatsmysbrowser.org
Internet Explorer 8
Windows 7
800 x 600

whatsmysbrowser.org
Internet Explorer 8
Windows 7
800 x 600

whatsmysbrowser.org
Internet Explorer 10

MEDIA SETTINGS

Save Video, Screenshots and Logs

Save this configuration

Start session

Saucelabs Test Complete

Test Complete | Cloud | OS X 10.13 | GPU 66 | more...

View Test History | Team | Report | Delete | Admin

MacDevOps 2018 Test

Install JIRA Plugin

Watch Commands Logs Network Metadata

FILTER: Command ▾ Has Screenshot

Play ▶ | ▶|◀|◀| 3 of 6 | 00:00:09 —————— 00:00:16

Command	Duration	Result
POST /session	00:00:00 + 2.60s	Pass
POST url	00:04:28 + 4.70s	Pass
POST element	00:09:16 + 0.03s	Pass
POST element/0.431186644216881-1...	00:09:31 + 4.86s	Pass
POST back	00:14:46 + 1.38s	Pass
DELETE /session/d25862dec34f4aa4...	00:16:09 + 0.00s	Pass

0 / 100 concurrent sessions

SCHEDULE Haven't attended MacDevOpsYVR before? Here's the schedule for our 2018 conference to give you an idea of what you'll experience. Schedule is subject to change. Stay tuned to changes via Twitter, the MacAdmins Slack #macdevopsyvr channel and by joining our e-mail list.

Finder File Edit View Go Window Help Sun 4:41 PM

Secure | https://mdoypv.com/schedule/

MAC DEV OPS YVR

[Buy Tickets] Attendees Speakers Sponsors Activities Schedule Conduct Videos Contact

SAUCELABS

- Dashboard
- Live Testing
- Tunnels **1 ACTIVE**
- Analytics
- Archives

0 / 100 concurrent sessions

Watch Commands Logs **Network** Metadata

Hide Page Timeline | Show Statistics |

Page Load: 4.12s, 49 Requests 2018-06-03, 4:41:42 PM https://www.eventbrite.com/e/mdoyvr2018-tickets-38821491125

https://mdoyvr.com/schedule/

GET schedule 200 94.8 KB 224.90ms

Headers **HTML**

Response Headers

```
status 200
server nginx
date Sun, 03 Jun 2018 23:41:44 GMT
content-type text/html; charset=UTF-8
strict-transport-security max-age=86400
vary Accept-Encoding
Cookie
last-modified Sun, 03 Jun 2018 23:37:47 GMT
cache-control max-age=63, must-revalidate
x-nananana Batcache
x-hacker If you're reading this, you should visit automattic.com/jobs and apply to join the fun, mention header.
link <https://wp.me/P6x36i-dq>; rel=shortlink
content-encoding gzip
x-ac 1.sjc _bur
```

Request Headers

```
Upgrade-Insecure-Requests 1
User-Agent Mozilla/5.0 (Macintosh; Intel Mac OS X 10_13_1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/.117 Safari/537.36
X-DevTools-Emulate-Network-Conditions-Client-Id ACFB05E23723EDFBD1028E2C7E1B7FF9
```

Network Timeline

Request	Status	Size	Time
GET remote-login.php	200	0	1.05s
GET _static??-eJx9j9E	200	5 KB	873.80ms
GET css?family=Libre	200	6.9 KB	1.4s
GET style.css?m=152	200	63 KB	874.50ms

Dependencies

**AutoPkg and GitHub TLSv1.0/1.1
removal
(Feb 22, 2018)**

```
#!/usr/bin/python
```

```
>>> platform.mac_ver()[0]
'10.11.6'
>>> ssl.OPENSSL_VERSION
'OpenSSL 0.9.8zh 14 Jan 2016'
```

```
>>> platform.mac_ver()[0]
'10.12.6'
>>> ssl.OPENSSL_VERSION
'OpenSSL 0.9.8zh 14 Jan 2016'
```

```
>>> platform.mac_ver()[0]
'10.13.4'
>>> ssl.OPENSSL_VERSION
'LibreSSL 2.2.7'
```

[Back to GitHub.com](#)[GitHub Support](#) [Contact GitHub](#)

Weak cryptographic standards removal notice

Feb 02, 2018  ptoomey3 Engineering

Last year we announced the deprecation of several weak cryptographic standards. Then we provided a status update toward the end of last year outlining some changes we'd made to make the transition easier for clients. We quickly approached the February 1, 2018 cutoff date we mentioned in previous posts and, as a result, pushed back our schedule by one week. On **February 8, 2018** we'll start disabling the following:

- `TLSv1 / TLSv1.1` : This applies to all HTTPS connections, including web, API, and git connections to <https://github.com> and <https://api.github.com>.
- `diffie-hellman-group1-sha1` : This applies to all SSH connections to github.com
- `diffie-hellman-group14-sha1` : This applies to all SSH connections to github.com

We'll disable the algorithms in two stages:

- **February 8, 2018 19:00 UTC (11:00 am PST)**: Disable deprecated algorithms for one hour
- **February 22, 2018 19:00 UTC (11:00 am PST)**: Permanently disable deprecated algorithms

For more details, head to the [Engineering Blog](#).

Featured

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github.com/clburlison/vendored



vendored

PASSED

The goal of this repo is to make it easy to "vendor" your own frameworks and programming languages in an automated fashion.

Once this project is complete you will be able to have own version of python with custom pip modules included, ruby, OpenSSL, and more all in one nice big package or multiple smaller packages for easy deployment.

Clay Caviness - Securing Management Tools - MacADUK 2017

The image shows a YouTube video player interface. On the left, there's a black sidebar with a white 'Google' logo. The main content area has a white background. At the top left of the white area, the text 'Python!' is displayed. Below it is a URL: <https://github.com/google/macops/tree/master/packages/python>. Underneath the URL is a block of command-line code. On the right side of the white area, there's a video feed showing a man, Clay Caviness, speaking at a podium. The video feed is framed by a black border.

```
configure-python: ${PYTHON_BUILD} /Library/MegaCorpSupport/openssl
cd "${PYTHON_BUILD}" && \
echo "__socket socketmodule.c timemodule.c" >> Modules/Setup.dist && \
echo "__ssl _ssl.c -DUSE_SSL "\ \
"-I/Library/MegaCorpSupport/openssl/include " \
"-I/Library/MegaCorpSupport/openssl/include/openssl " \
"-L/Library/MegaCorpSupport/openssl/lib -lssl -lcrypto" >> \
Modules/Setup.dist && \
./configure \
--prefix="${WORK_D}/${PYTHON_PATH}" \
--enable-ipv6 \
--with-system-expat \
--with-threads \
--datarootdir="${WORK_D}/${PYTHON_PATH}/share" \
--datadir="${WORK_D}/${PYTHON_PATH}/share"
patch ${PYTHON_BUILD}/Lib/ssl.py < log_cert.patch
```

Clay Caviness - Securing Management Tools

98 views

1 like 3 dislike SHARE ...



MacADUK

Published on Mar 29, 2017

SUBSCRIBE 377

What is so hard? It's just `pip install`?

NPM (part 1)

(Feb 21, 2018)

Library Package Managers (LPMs)

Critical Linux filesystem permissions are being changed by latest version #19883

 Closed

Crunkle opened this issue on Feb 21 · 121 comments



Crunkle commented on Feb 21 • edited ▾

I'm opening this issue because:

- npm is crashing.
- npm is producing an incorrect install.
- npm is doing something I don't understand.
- Other (see below for feature requests):

What's going wrong?

This issue has been happening ever since 5.7.0 was released a few hours ago. It seems to have completely broken my filesystem permissions and caused me to have to manually fix the permissions of critical files and folders. I believe that it is related to the commit [94227e1](#) which is traversing and running `chown` on the wrong, often critical, filesystem files and folders.

By running `sudo npm` under a non-root user (root users do not have the same effect), filesystem permissions are being heavily modified. For example, if I run `sudo npm --help` or `sudo npm update -g`, both commands cause my filesystem to change ownership of directories such as `/etc`, `/usr`, `/boot`, and other directories needed for running the system. It appears that the ownership is recursively changed to the user currently running npm.

I found that a selection of directories in `/` were owned by a non-root user after running `sudo npm` and many binaries in `/usr/bin` stopped working as their permissions were changed. People experiencing this bug will likely have to fully reinstall their system due to this update.

`npm update -g as root:`

No output, all packages up to date. Likely still causes a `chown` to be run silently to `root:root`.

```
drwxr-xr-x 10 root root 129 Feb 22 03:39 /usr
```

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

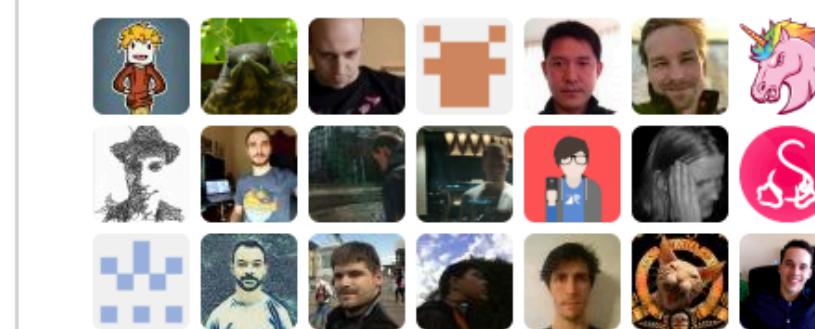
No milestone

Notifications

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78 participants



and others

Other (see below for feature requests):

Projects

None yet

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Milestone

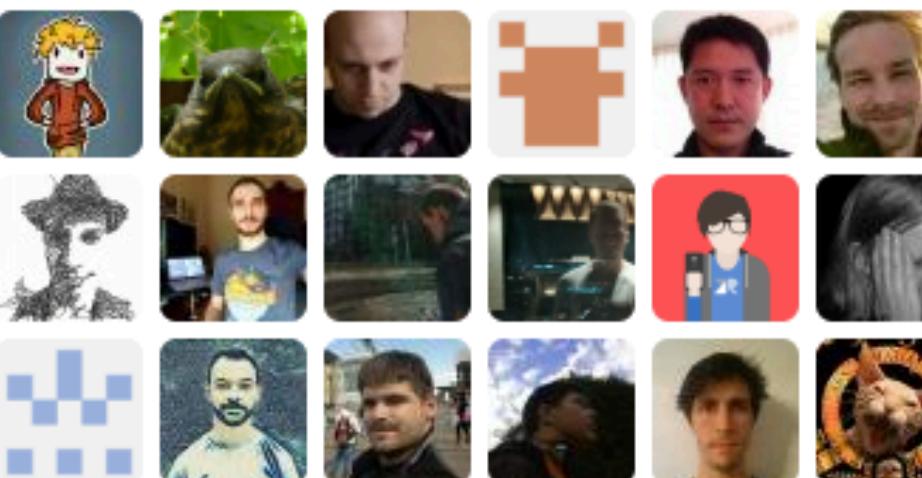
No milestone

Notifications

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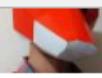
and others

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`drwxr-xr-x 10 root root 129 Feb 22 03:39 /usr`



dwarandae commented on Feb 22



© Softcat.ru



34



10



10



5



cjdelsile commented on Feb 22

This thread



25



3



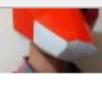
16



10



8



dwarandae commented on Feb 22



© Softcat.ru



34



10



10



5



cjdelsile commented on Feb 22

This thread



25



3



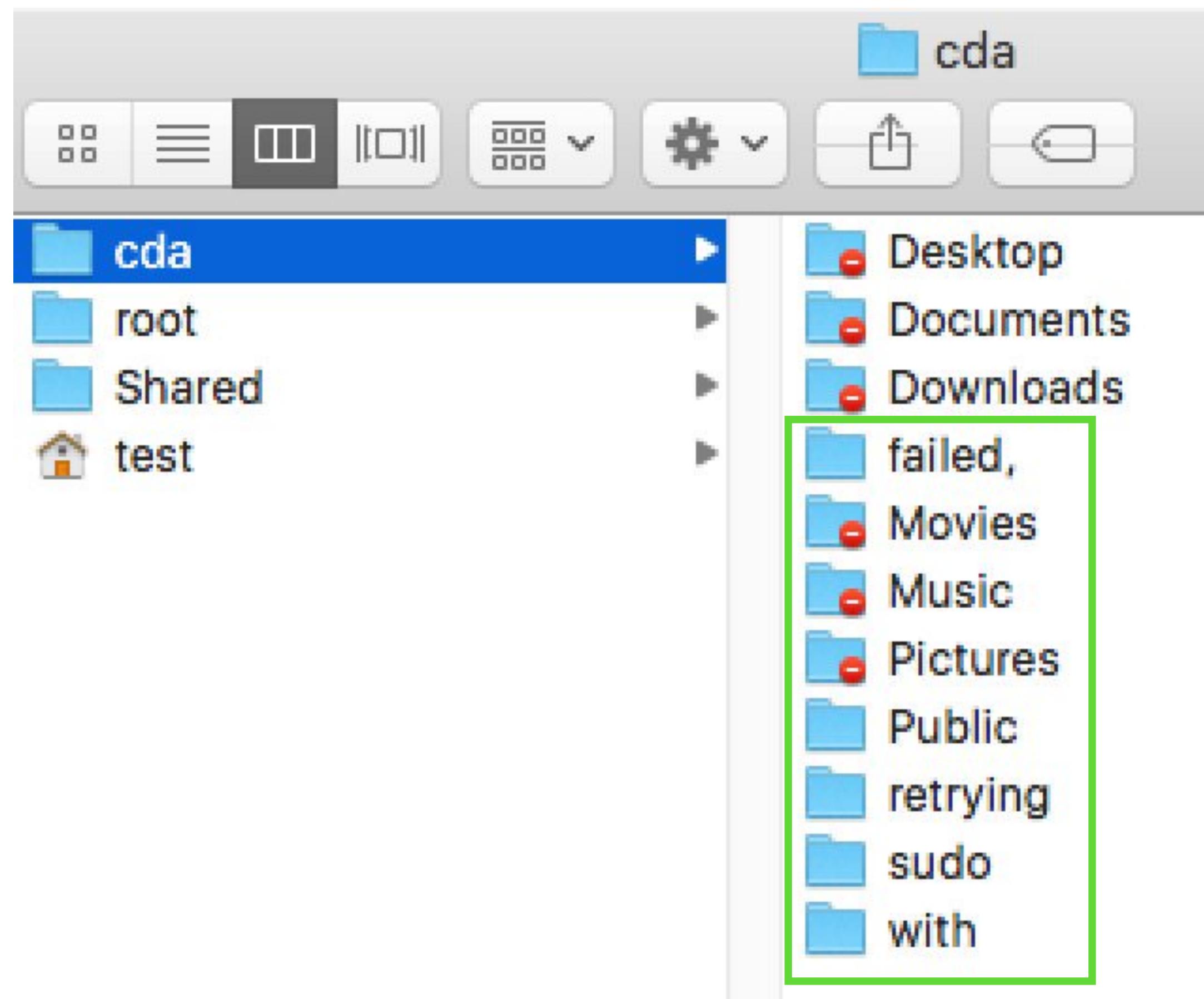
16

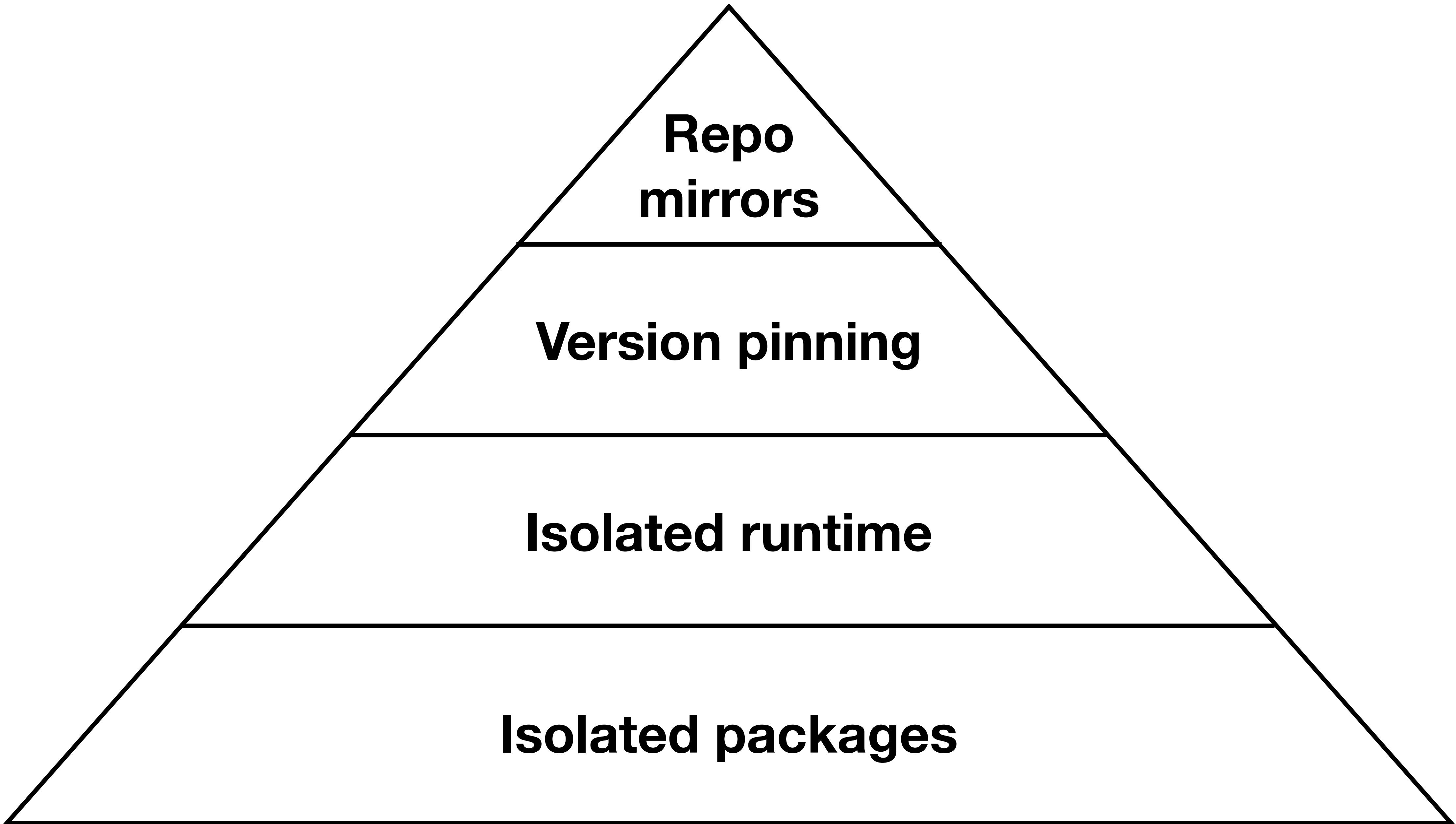


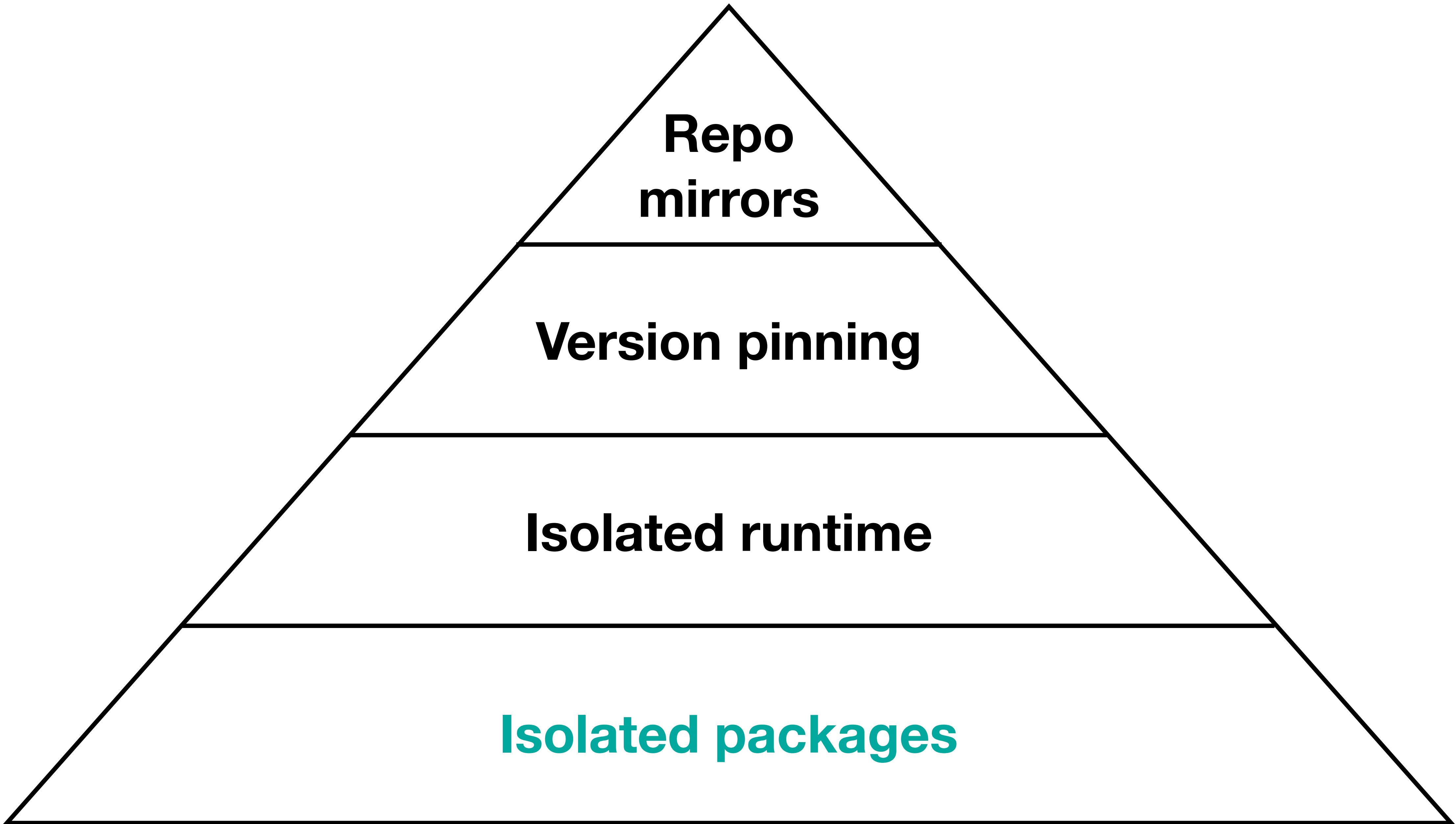
10



8







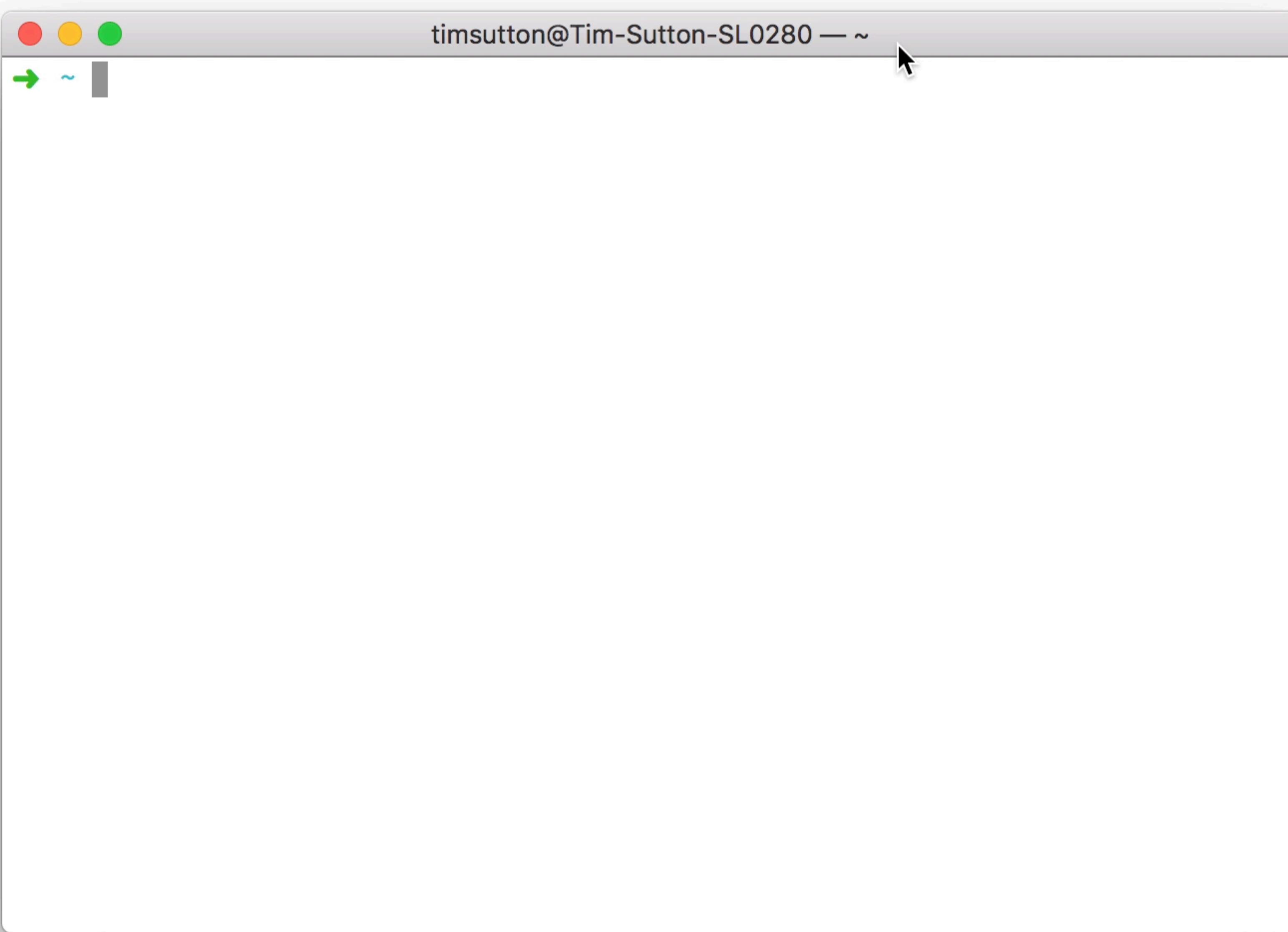
Isolate packages

- Don't sudo <pip|gem|npm> install anything
- Eliminates contamination of OS managed/supplied packages
- Your project's environment lives independently of any other projects and packages
- (Mostly) portable to any other OS / environment

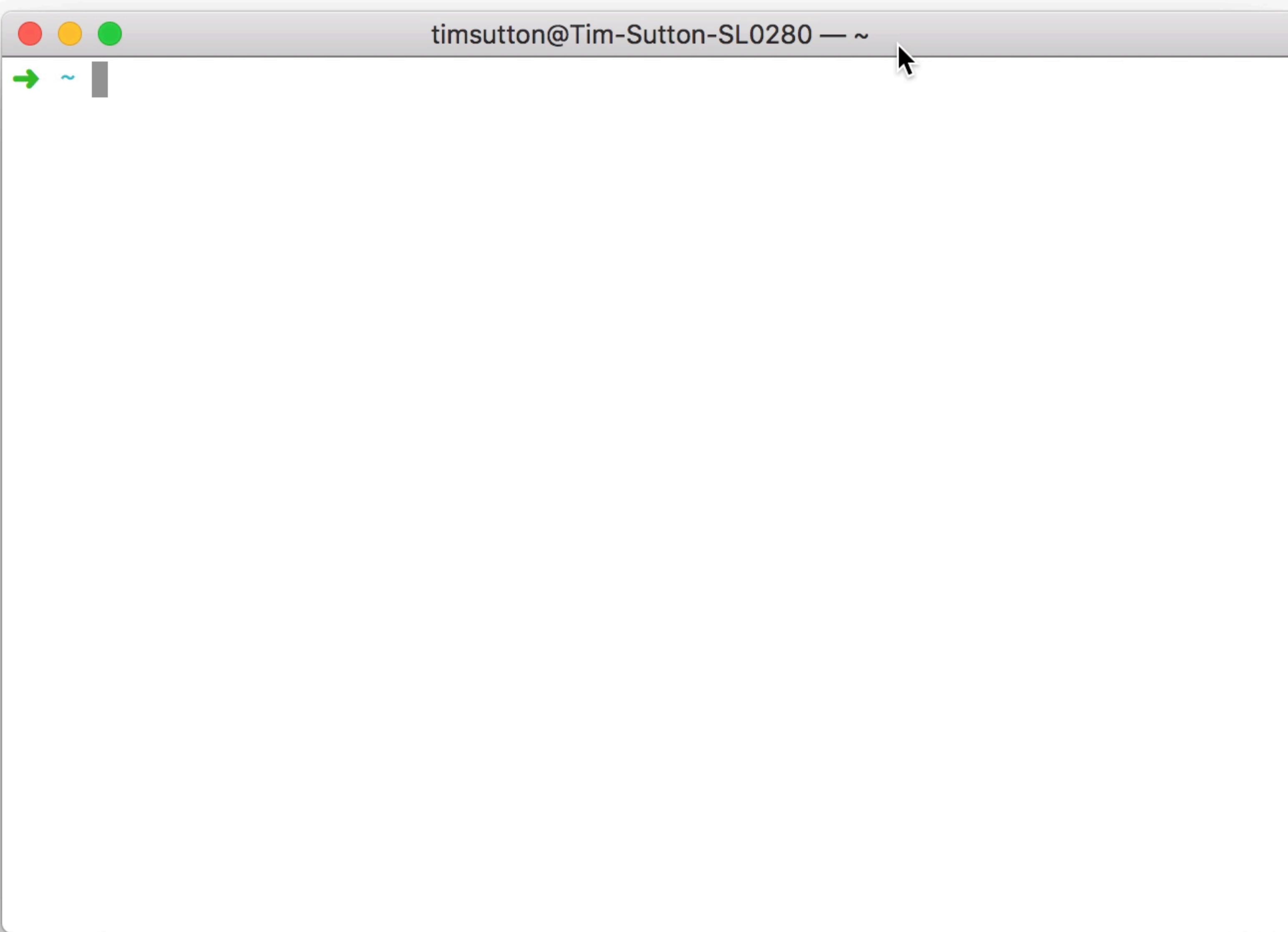
Isolate packages (Python)

- Install virtualenv once (and ideally virtualenvwrapper or similar)
- virtualenv / mkvirtualenv -p to specify which Python you want to use when creating
- Use workon to easily switch between environments
- pip install, then pip freeze to save a requirements.txt

Isolate packages (Python)



Isolate packages (Python)



Isolate packages (Ruby)

- Install Bundler
- Define project gems in Gemfile, constrain versions as you wish
- `bundle update` to resolve and "freeze" the constraints to `Gemfile.lock`
- Now any `bundle install` will only install the exact versions from `Gemfile.lock` - check both files into version control
- Run `bundle update` to update it later
- Run things via `bundle exec <command>`

Isolate packages (Ruby)

Gemfile

```
gem "sinatra", "~> 1"
```

Isolate packages (Ruby)

Gemfile

```
gem "sinatra", "~> 1"
```

Gemfile.lock

```
GEM
  specs:
    rack (1.6.10)
    rack-protection (1.5.5)
    rack
    sinatra (1.4.8)
    rack (> 1.5)
    rack-protection (~> 1.4)
    tilt (>= 1.3, < 3)
    tilt (2.0.8)
```

```
PLATFORMS
  ruby
```

```
DEPENDENCIES
  sinatra (~> 1)
```

Isolate packages (Ruby)

Gemfile

```
gem "sinatra", "~> 2"
```

Isolate packages (Ruby)

Gemfile

```
gem "sinatra", "~> 2"
```

→ bundle update

```
Fetching gem metadata from https://rubygems.org/.....
```

```
Resolving dependencies...
```

```
Using bundler 1.16.1
```

```
Fetching mustermann 1.0.2
```

```
Installing mustermann 1.0.2
```

```
Fetching rack 2.0.5 (was 1.6.10)
```

```
Installing rack 2.0.5 (was 1.6.10)
```

```
Fetching rack-protection 2.0.2 (was 1.5.5)
```

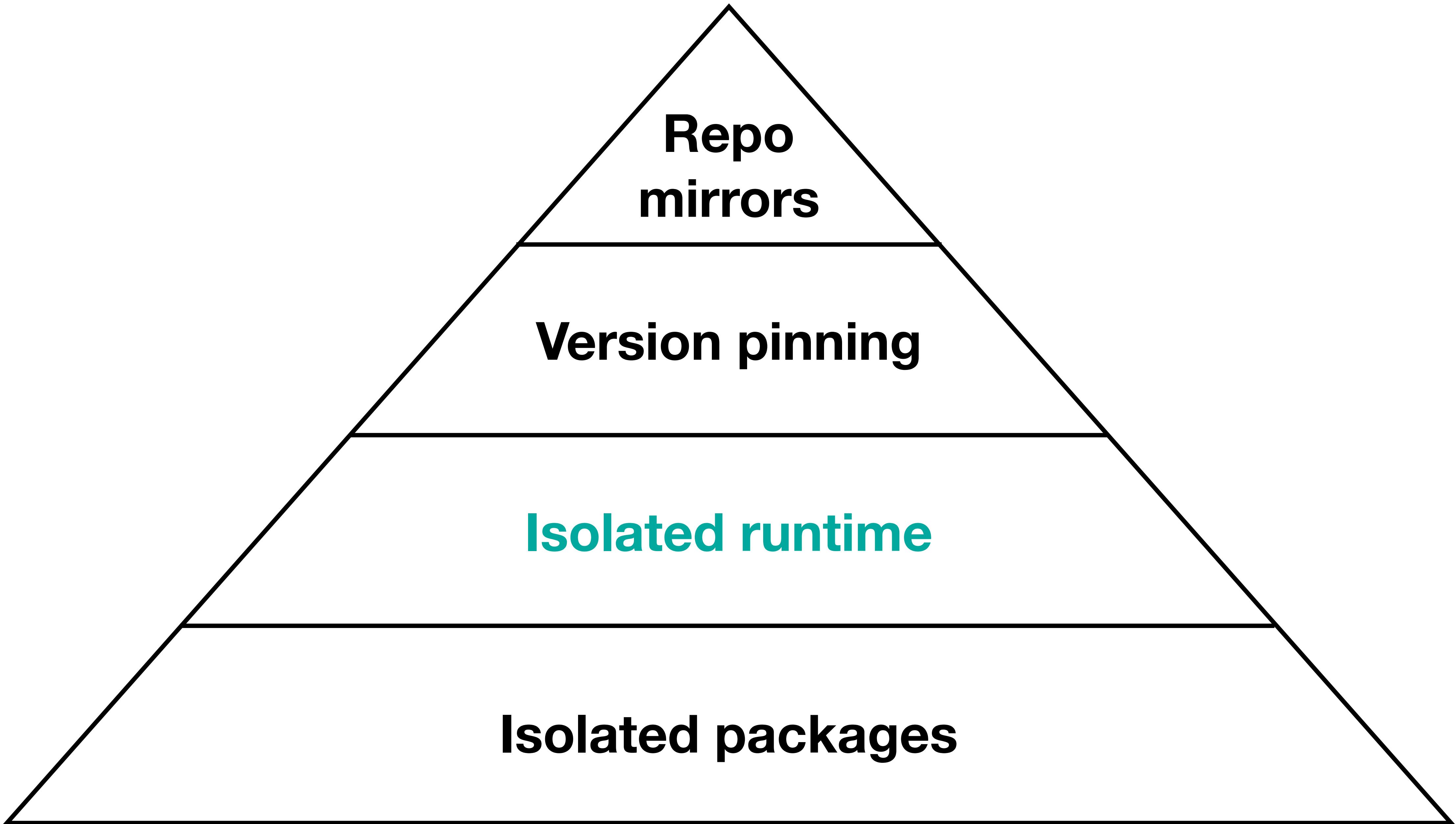
```
Installing rack-protection 2.0.2 (was 1.5.5)
```

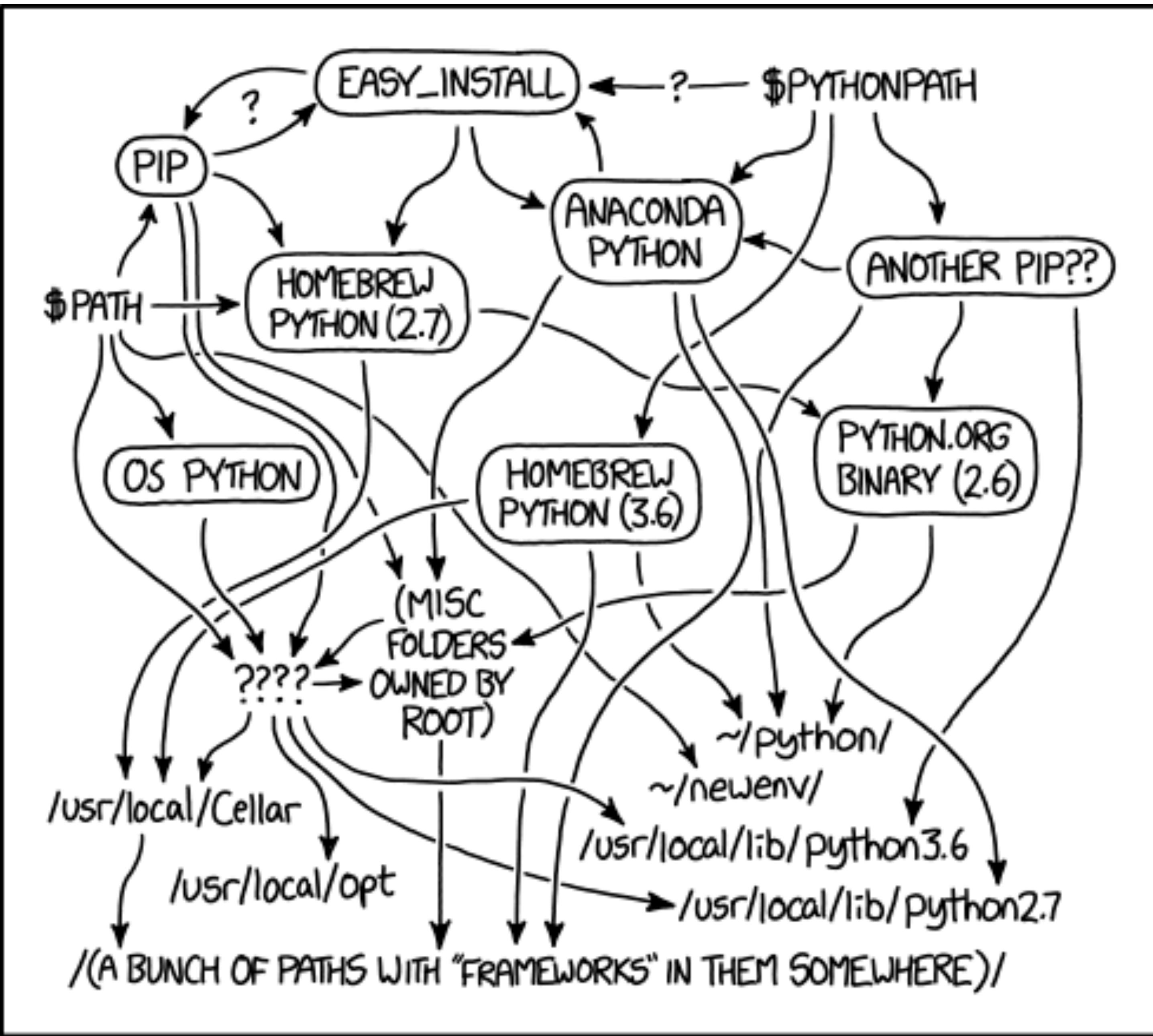
```
Using tilt 2.0.8
```

```
Fetching sinatra 2.0.2 (was 1.4.8)
```

```
Installing sinatra 2.0.2 (was 1.4.8)
```

```
Bundle updated!
```





MY PYTHON ENVIRONMENT HAS BECOME SO DEGRADED
THAT MY LAPTOP HAS BEEN DECLARED A SUPERFUND SITE.

Text	Explanation
\$PATH	\$PATH refers to the PATH environment variable, which determines where to search for executable files. In this case, it indicates that the pip, Homebrew Python (2.7), and OSX's pre-installed Python are accessible on path, with ~/newenv/ and a mysterious ???? as part of PATH.
pip	pip is the Python package management system , and is used to install and manage python packages. As it is written in Python, it requires Python to run. It leads to easy_install, Homebrew Python (2.7), "(misc folders owned by root)", and ????.
Homebrew Python (2.7)	Homebrew is the de facto standard third-party OSX package manager. Homebrew Python (2.7) is the Python 2 version installed through Homebrew. This leads to Python.org binary (2.6) and /usr/local/Cellar.
OS Python	Apple bundles an (out of date) version of Python with OSX. This only leads to ????.
????	
easy_install	easy_install, much like pip, is a cpan-like tool to download and install Python packages. As of the creation of the comic, many people discourage its use. (e.g., this question on stack exchange . 
Anaconda Python	Anaconda is a Python distribution for data science and machine learning related applications.
Homebrew Python (3.6)	As of the creation of the comic, Python 3.6 is the current stable version of Python.
Python.org binary (2.6)	
(Misc folders owned by root)	
/usr/local/Cellar	
/usr/local/opt	Both /usr/local and /opt are directories that store files that do not belong to a Unix-like operating system. Usually, files in /usr/local were created with a make command , and files in /opt are unbundled packages. The joke is that /usr/local/opt should really, really not exist.
/(A bunch of items with "Frameworks" in them somewhere)/	The system-included Python distribution in macOS resides in /System/Library/Frameworks
\$PYTHONPATH	
Another pip??	There should only be one PIP (package management system) in place. More than one would lead to them contradicting each other. Randall is confused as to how the second one got there.
~/python/	

https://www.explainxkcd.com/wiki/index.php/1987:_Python_Environment

Isolate runtime / interpreter

Isolate runtime / interpreter

- Remove variables in the OS which limits supported OSes for your project
 - Apple: Python/Ruby linked to OpenSSL until 10.13 (switched to LibreSSL)
 - Ruby versions included on macOS make large jumps in versions
 - Linux: runtime provided by the OS may be too old
 - Needing to ever change switch base OS flavours could change your runtime version
 - Windows: Never came with Python 🤦

Isolate runtime / interpreter

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 - Linux: runtime provided by the OS may be too old
 - Needing to ever change switch base OS flavours could change your runtime version
 - Windows: Never came with Python 🤦
- Isolating the runtime also makes it easier to isolate packages

Isolate runtime / interpreter

Isolate runtime / interpreter

- Python
 - pyenv

Isolate runtime / interpreter

- Python
 - pyenv
- Ruby
 - RVM
 - rbenv
 - ruby-install + chruby

Isolate runtime / interpreter

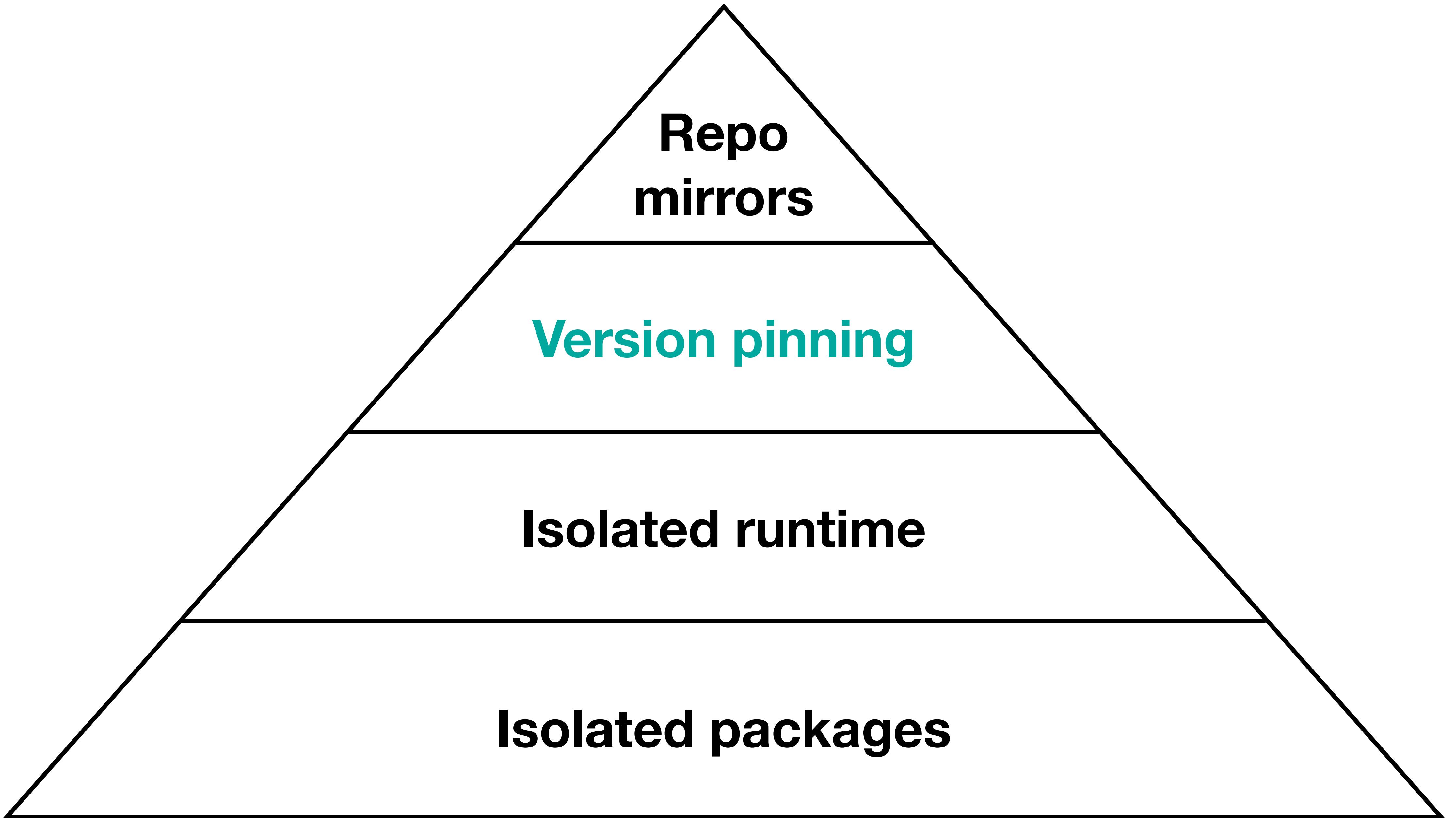
- Python
 - pyenv
- Ruby
 - RVM
 - rbenv
 - ruby-install + chruby
- Node
 - NVM

Isolate runtime / interpreter

- Python
 - pyenv
- Ruby
 - RVM
 - rbenv
 - ruby-install + chruby
- Node
 - NVM
- Go
 - GVM

Isolate runtime / interpreter

- Python
 - pyenv
- Ruby
 - RVM
 - rbenv
 - ruby-install + chruby
- Node
 - NVM
- Go
 - GVM
- Or... Docker



Version pinning

- No `>=1.2`, only `==1.2.3`
- Remove all surprises about versions
- Every version update becomes intentional
 - Easier to correlate via Git history any bugs or regressions, and understand context of why a package was updated
- Can also pin to specific forks, internal or patched versions of libraries

Version pinning

- With Bundler (Ruby) you'll get this for free
- pip (Python) also lets you specify exact package versions (==), although pip doesn't have a true dependency resolver
- Resist the urge to define Python dependencies loosely, even if it is more tedious to update requirements files

Version pinning

```
pip install --upgrade pip ?
```

Version pinning

pip install --upgrade pip ?

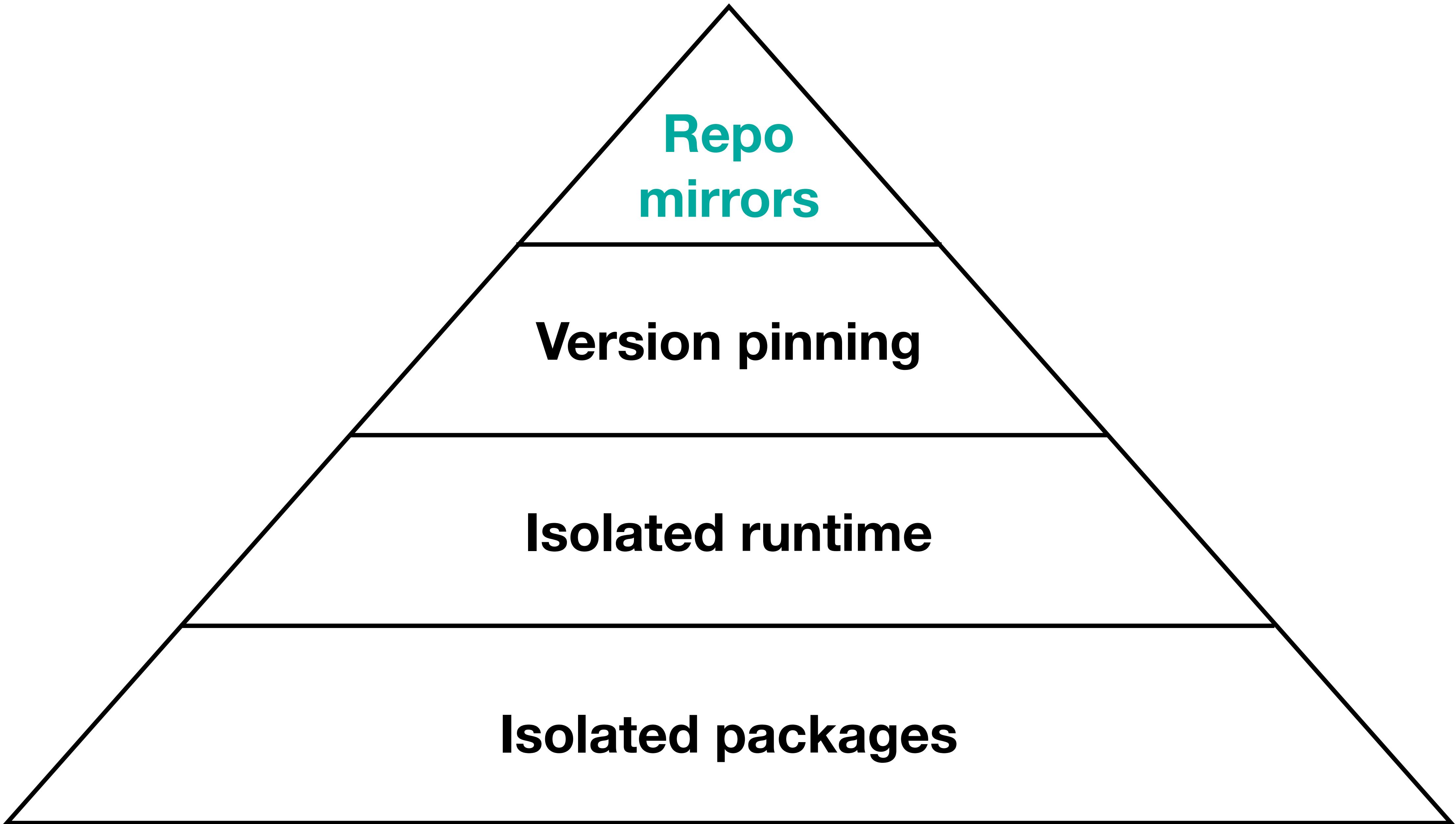
```
>>> pip.__version__
'9.0.1'
>>> from pip import req
>>>
```

Version pinning

pip install --upgrade pip ?

```
>>> pip.__version__
'9.0.1'
>>> from pip import req
>>>
```

```
>>> pip.__version__
'10.0.1'
>>> from pip import req
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
ImportError: cannot import name req
>>>
```



NPM (part 2)

left-pad

How one developer just broke Node, Babel and thousands of projects in 11 lines of JavaScript

Code pulled from NPM – which everyone was using

By [Chris Williams, Editor in Chief](#) 23 Mar 2016 at 01:24

167 

SHARE ▾



Careful, careful ... Don't fumble this like the JS world (Credit: Claus Rebler)

Updated Programmers were left staring at broken builds and failed installations on Tuesday after someone toppled the Jenga tower of JavaScript.

[Code](#)[Issues 220](#)[Pull requests 24](#)[Projects 0](#)[Wiki](#)[Insights](#)

left-pad proof our CI #1976

[New issue](#)[Closed](#)

carolynvs opened this issue 25 days ago · 2 comments



carolynvs commented 25 days ago • edited

Contributor



Our CI builds were taken out by golint's go metadata server being down last night. We can vendor our go tools with dep so that this doesn't happen again.

- Remove workaround from [#1975](#)
- Vendor go tools installed in our build image with dep, and just compile them in the Dockerfile

carolynvs added the [build](#) label 25 days ago

carolynvs self-assigned this 25 days ago



n3wscott commented 22 days ago

Member



what does "left-pad" refer to?



logicfox commented 20 days ago



@n3wscott look up [NPM leftpad fiasco](#)

Assignees

carolynvs

Labels[build](#)**Projects**

None yet

Milestone

No milestone

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3 participants

On March 22nd 2016, a terrible tragedy befell the Node.JS community. A popular microframework for robust string expansion, `left-pad`, [was removed from npmjs.com](#).

This resulted in broken deploys worldwide, a sudden and complete inability to appropriately zero-pad the fractional real cent value of many stock options, and untold billions of dollars in economic damage to the still nascent startup ecosystem of String Manipulation as a Service.

(From <http://left-pad.io>)

→ ~ curl 'https://api.left-pad.io/?len=20&str=moar padding'

{"str": "moarpadding"}%

Mirroring

- 1. One less point of failure**

Mirroring

2. It's (probably) faster

Mirroring

3. Can host internal-only packages

requirements.txt

```
--index-url https://org.my.pypi/simple/  
  
my-internal-package==18.06.07  
pathlib2==2.3.2  
pexpect==4.5.0  
selenium==3.12.0
```

Gemfile

```
BASE_URL = 'http://org.my.gems'  
  
source BASE_URL  
gem 'rails', '~>5'  
gem 'xcode-install', '2.4.0'  
  
source "#{BASE_URL}/private" do  
  gem 'private-gem', '~> 1.1'  
end
```

Mirroring

4. You have backups / archives to roll back to

Mirroring

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- Artifactory Pro does 20+ package manager mirrors/registry types, and is \$\$\$

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```
docker run -itd \
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gaoyifan/homebrew-bottle-mirror
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```

```
> update package info...
From git://github.com/homebrew/homebrew-core
 * branch           master      -> FETCH_HEAD
 * [new branch]     master      -> origin/master
HEAD is now at 60e56c1 prometheus: update 2.3.0 bottle.
```

```
> RUN brew bottle-mirror...
==> ascii-3.18.high_sierra.bottle.tar.gz downloaded
==> libdvdnav-6.0.0.high_sierra.bottle.tar.gz downloaded
==> ascii-3.18.sierra.bottle.tar.gz downloaded
==> libdvdnav-6.0.0.sierra.bottle.tar.gz downloaded
==> makepp-2.0.high_sierra.bottle.tar.gz downloaded
==> ld64-97.17.snow_leopard.bottle.tar.gz downloaded
```

Mirroring

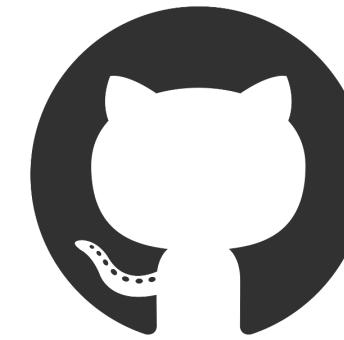
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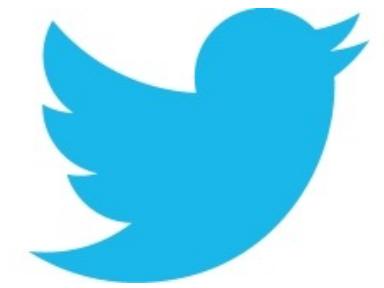
- <https://github.com/gaoyifan/homebrew-bottle-mirror> (Yifan Gao)

```
HOMEBREW_BOTTLE_DOMAIN=https://my.bottle.mirror \
brew install cocoapods jq libimobiledevice
```

Thank you!



@timsutton



@tvsutton

<https://macops.ca/dependencies>