

# HOMEBREW \*

BY ILYA KRASNOV @ JUNE 15, 2017

\*the missing package manager for macOS

# STAKEHOLDERS

- ▶ **Users (mostly developers)**
  - ▶ **Maintainers**
- ▶ **Upstream package maintainers**

**USE CASE**

# SET UP MY MAC

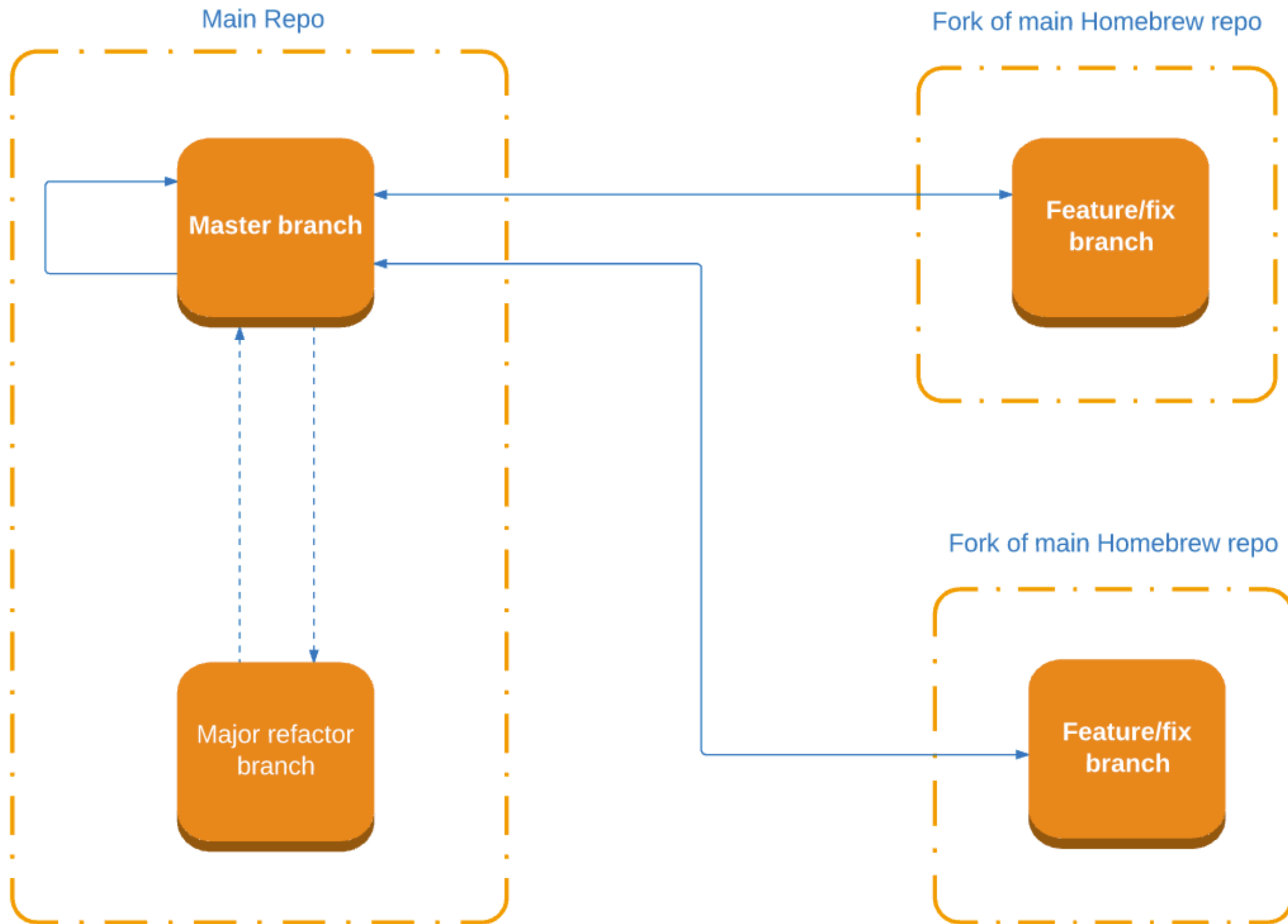
```
brews=(  
    coreutils  
    git  
    htop  
    node  
    postgresql  
    python  
    ...  
)  
...  
prompt "Install packages"  
brew info ${brews[@]}  
install 'brew install' ${brews[@]}
```

**OPEN SOURCE**

**4462 - 6 - 7**

**CONTRIBUTING**





**ARCHITECTURE - LET'S  
EXPLORE FIRST**



- ▶ **Keg**
- ▶ **Cellar**
- ▶ **Tap**
- ▶ **Formula**

**FORMULA**

```

class Node < Formula
  desc "Platform built on V8 to build network applications"
  homepage "https://nodejs.org/"
  url "https://nodejs.org/dist/v8.1.1/node-v8.1.1.tar.xz"
  sha256 "7b0d176dc4a1db37789e009825ba03d2e3f834227e5efd296167e7ef6b287847"
  head "https://github.com/nodejs/node.git"

...
  # We track major/minor from upstream Node releases.
  # We will accept *important* npm patch releases when necessary.
  resource "npm" do
    url "https://registry.npmjs.org/npm/-/npm-5.0.3.tgz"
    sha256 "de62206d779afcba878b3fb949488c01be99afc42e3c955932e754c2ab9aec73"
  end

  def install
    ...
  end

  def post_install
    ...
  end

  npm_root = node_modules/"npm"
  npmrc = npm_root/"npmrc"
  npmrc.atomic_write("prefix = #{HOMEBREW_PREFIX}\n")
end

def caveats
  if build.without? "npm"
    <<-EOS.undent
      Homebrew has NOT installed npm. If you later install it, you should supplement
      your NODE_PATH with the npm module folder:
      #{HOMEBREW_PREFIX}/lib/node_modules
    EOS
  end
end

test do
  path = testpath/"test.js"
  path.write "console.log('hello');"

  ...
  if build.with? "icu4c"
    output = shell_output("#{bin}/node -e 'console.log(new Intl.NumberFormat(\"de-DE\").format(1234.56))'").strip
    assert_equal "1.234,56", output
  end

  if build.with? "npm"
    # make sure npm can find node
    ...
  end
end
end

```



# TESTING

```
describe Tap do
...
  describe "#install" do
    it "raises an error when the Tap is already tapped" do
      setup_git_repo
      already_tapped_tap = described_class.new("Homebrew", "foo")
      expect(already_tapped_tap).to be_installed
      expect { already_tapped_tap.install }.to raise_error(TapAlreadyTappedError)
    end
  end
end
...
end
```


Travis CI

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Homebrew / brew




buildpassing


CurrentBranchesBuild HistoryPull Requests


More options


✓ Pull Request #2786


Added ``/Library/Homebrew/bin`` and ``/Library`


 Commit 0234f6b


 #2786: Added ``/Library/Homebrew/bin`` and ``/Library/Homebrew/.npmignore`` to gitignore


 Branch master

 #5884 passed

 Ran for 56 min 49 sec

 Total time 28 min 21 sec

 about 7 hours ago

 mansimarkaur authored and committed



**Max Howell**

@mxcl

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Google: 90% of our engineers use the software you wrote (Homebrew), but you can't invert a binary tree on a whiteboard so fuck off.

RETWEETS

**7,107**

LIKES

**8,582**

