

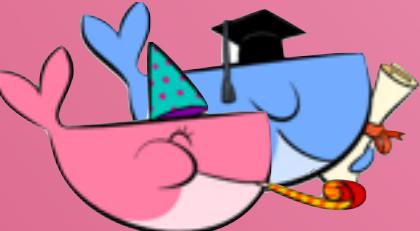
# Docker's 2nd Birthday



#dockerbday



Welcome to  
your first  
open-source-  
a-thon



# Today is about

# open source



Today is about  
community



# Today is about

## Go



Today is about

marine  
wildlife





**For each contributor to the Docker project, Docker will donate \$50 to the Oceanic Society**

See [docker.party](https://docker.party) for details



Contribute again  
prior to Earth Day  
(Apr 22, 2015) &  
Docker will donate  
another \$50



See docker.party for details





**For each mentor  
Docker will donate \$50  
to the Oceanic Society**



See docker.party for details



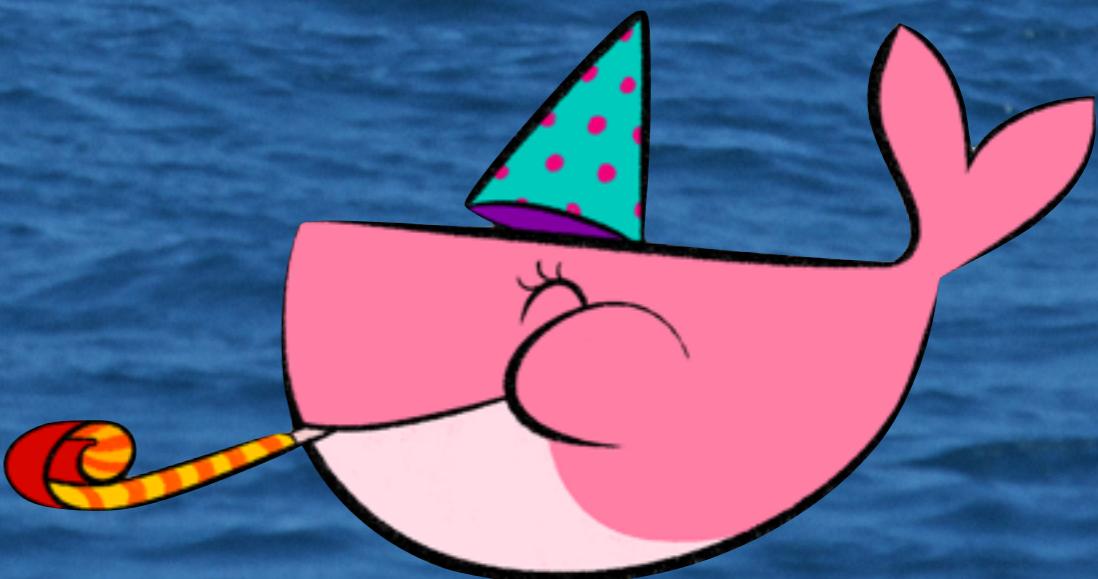
# Introducing Molly Dock



Part of the proceeds will go towards adopting and naming a blue whale soon to be known as “Molly Dock”

Molly Dock has been sighted 74 times since 1992 primarily off the coast of California.

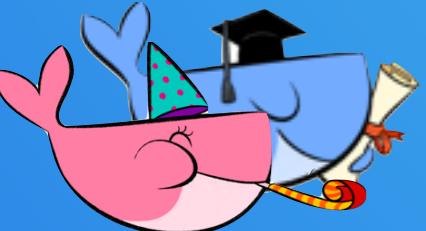
She's a mother to at least 2 calves



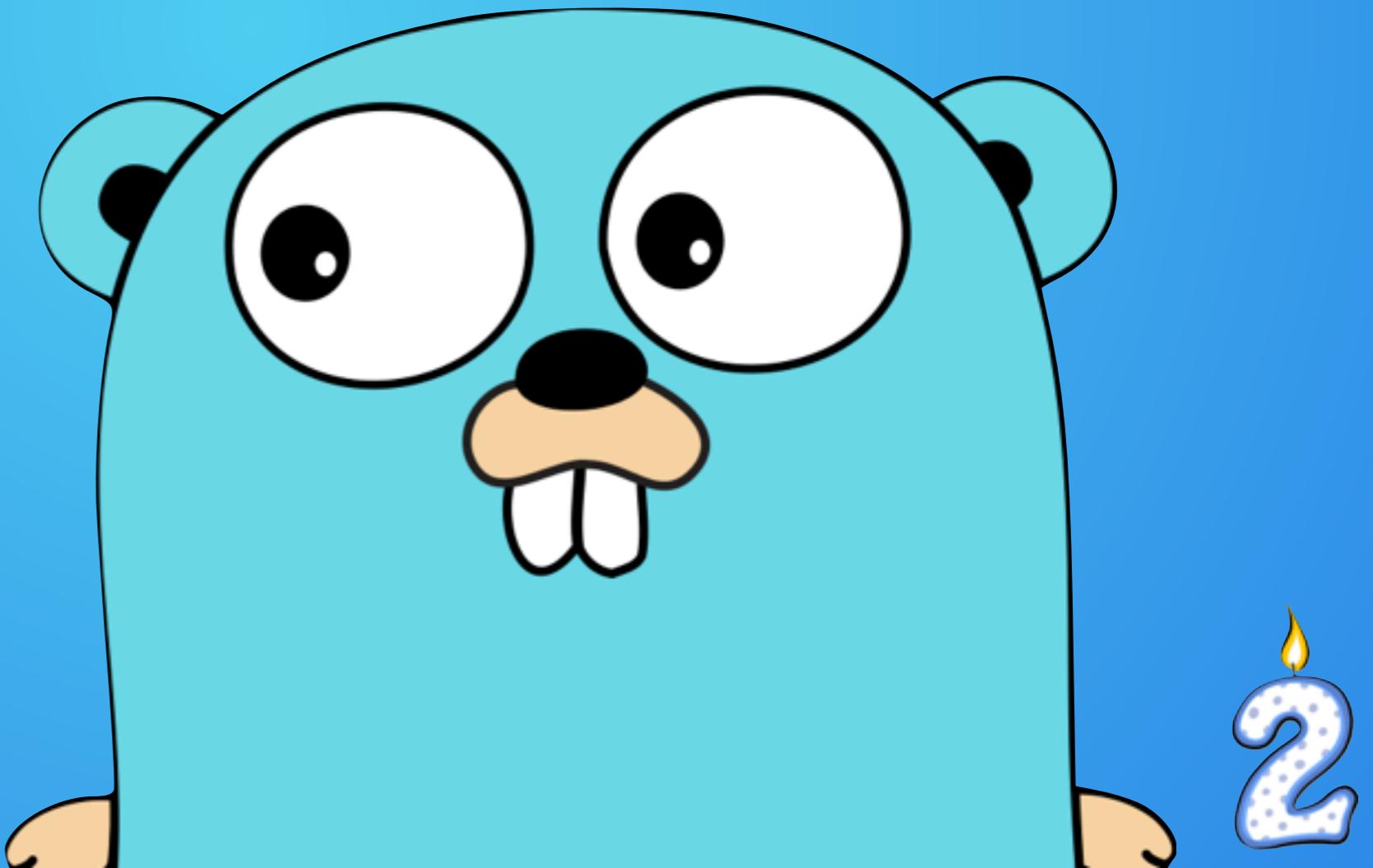
# what is Docker?



Docker is an  
open source  
project



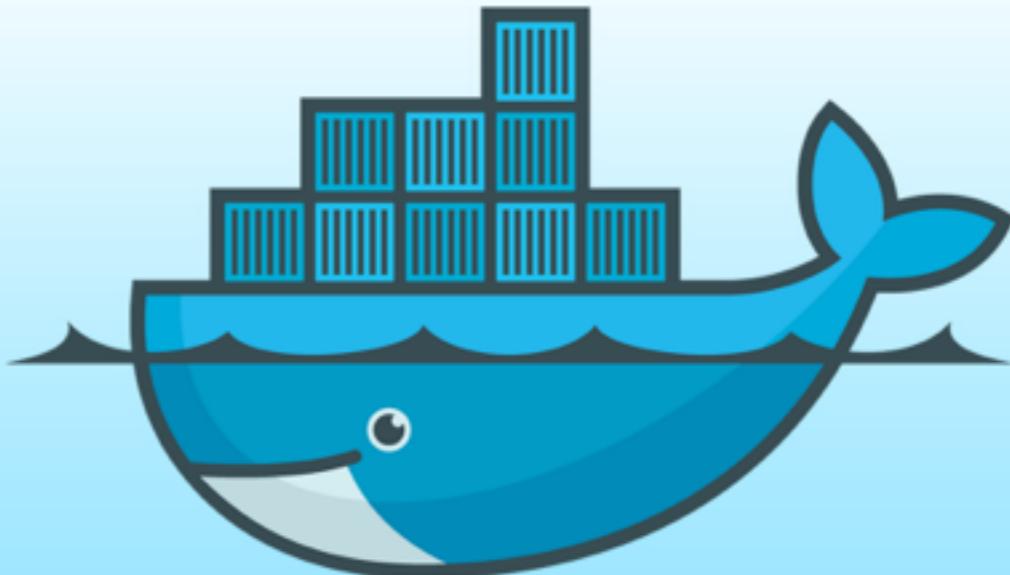
# Docker is written in Go



[What is Docker?](#)[Use Cases](#)[Try It!](#)[Install & Docs](#)[Browse](#)[Log In](#)[Sign Up](#)

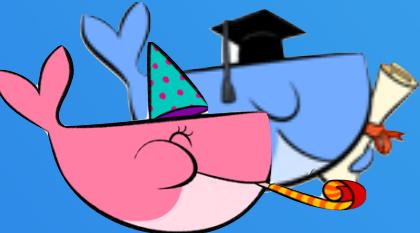
# Build, Ship and Run Any App, Anywhere

Docker - An open platform for distributed applications for developers and sysadmins.

[What is Docker?](#)[Try It!](#)

## New: Docker Orchestration Tools

# Docker helps developers build, ship and run applications faster



# Docker Docker

 [docker / docker](#)

[Watch](#) 1,681 [Unstar](#) 19,927 [Fork](#) 4,178

Docker - the open-source application container engine <http://www.docker.com> — [Edit](#)

13,831 commits 11 branches 86 releases 809 contributors

branch: master → [docker](#) / [+](#)

Merge pull request #11305 from moxiegirl/HOSTPATH-text-11144 ...  
moxiegirl authored 3 hours ago latest commit 50bf3cbedc

File	Description	Time Ago
api	Merge pull request #11305 from moxiegirl/HOSTPATH-text-11144	3 hours ago
builder	Some fixed for new LABEL stuff	2 days ago
builtins	Removing -X flag option and autogenerated code to create Dockerversio...	27 days ago
contrib	Updates to bash completion	a day ago
daemon	Merge pull request #11450 from crosbymichael/rlimitfix	16 hours ago
docker	Fix daemon shutdown on error after rework of daemon startup	a day ago
dockerinit	pkg/reexec: move reexec code to a new package	4 months ago
docs	Merge pull request #11305 from moxiegirl/HOSTPATH-text-11144	3 hours ago
engine	Merge pull request #11076 from hqhq/hq_use_warning_in_sysinfo	3 days ago
events	filter events by container name,id or partial id	12 days ago
graph	Add ability to refer to image by name + digest	a day ago

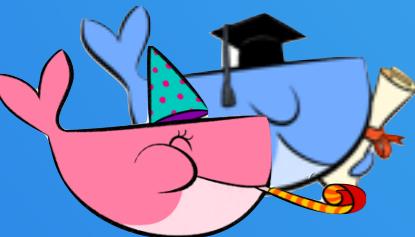
Code Issues 682 Pull requests 123 Pulse Graphs Settings

SSH clone URL  
git@github.com:dock... [Copy](#)

You can clone with [HTTPS](#), [SSH](#), or [Subversion](#).

[Clone in Desktop](#) [Download ZIP](#)

Run any application as a lightweight container



# Kitematic

kitematic / kitematic

The easiest way to start using Docker on Mac <https://kitematic.com>

1,050 commits 3 branches 23 releases 11 contributors

branch: master +

Update ROADMAP.md

File	Description	Time Ago
__tests__	Fixing tests, regencerts only on Stopped and Saved VMs	10 days ago
fonts	Rename icons	11 days ago
images	Merge branch 'master' into machine	20 days ago
resources	Setup fixes & unit tests	a month ago
src	Fix white screen if VBox is not installed properly	9 days ago
styles	Rename icons	11 days ago
util	Fixing npm install	4 days ago
.gitignore	Fix .gitignore	7 days ago
.jshintrc	Merging	a month ago
CONTRIBUTING.md	Update CONTRIBUTING.md	4 days ago
LICENSE	Update company name to Docker, Inc.	6 days ago

Code

- Issues 75
- Pull requests 2
- Wiki
- Pulse
- Graphs

SSH clone URL  
git@github.com:kitematic/

You can clone with [HTTPS](#), [SSH](#), or [Subversion](#).

Clone in Desktop

Download ZIP

## Docker GUI for the Mac



# Docker Compose

 docker / compose

Define and run complex applications using Docker <https://docs.docker.com/compose/> — Edit

1,009 commits 7 branches 24 releases 68 contributors

branch: master → compose / +

Merge pull request #1128 from aanand/jenkins-dco ...  
bflirsh authored 4 hours ago latest commit ae9c965823

File	Description	Time Ago
bin	Rename binary to docker-compose and config file to docker-compose.yml	2 months ago
compose	Merge pull request #867 from knutwalker/feature/timeout-flag	5 days ago
contrib/completion/bash	Add timeout flag to stop, restart, and up	8 days ago
docs	Fix environment resolution	5 days ago
script	Validate DCO in script/test-versions	18 hours ago
tests	Change port in ports-composefile to 49152	2 days ago
.dockerignore	Add script which runs Fig inside Docker	26 days ago
.gitignore	Rename binary to docker-compose and config file to docker-compose.yml	2 months ago
CHANGES.md	Ship 1.1.0	21 days ago
CONTRIBUTING.md	Run tests using Docker-in-Docker so we can test multiple versions	9 days ago
Dockerfile	Kick everything off from a single container	9 days ago
LICENSE	Docker, Inc.	8 months ago

Code Issues Pull requests Pulse Graphs Settings

SSH clone URL:  
`git@github.com:docker/com`  
You can clone with [HTTPS](#), [SSH](#), or [Subversion](#).

Clone in Desktop Download ZIP

Running multiple containers in cooperation



# Docker Machine

 [docker / machine](#)

Watch 113 ⌂ Star 1,523 ⌂ Fork 217 ⌂

Machine management for a container-centric world <https://docs.docker.com/machine/> — Edit

701 commits 1 branch 8 releases 44 contributors

branch: master machine / +

Merge pull request #625 from databus23/b2d\_proxy\_env ...  
ehazlett authored 3 hours ago latest commit 46ea081f70

File	Commit Message	Time
Godeps	Vendor 'github.com/skarademir/naturalsort'	13 hours ago
docs	certs: check if remote is valid and regenerate if not	a day ago
drivers	Merge pull request #770 from ehazlett/x509-check-ip-san	a day ago
provider	add provider package tests	9 days ago
script	more integration test robustness	11 days ago
ssh	start on refactor for driver interface	9 days ago
state	Fix doc typo and add additional if condition	3 months ago
test/integration	DO: updated to new driver spec; updated integration tests	a day ago
utils	Disable HTTP Keepalives for b2d iso download	22 hours ago
.dockerignore	Add some misses I found	2 months ago
.gitignore	Add some misses I found	2 months ago

< Code Issues 123 Pull requests 40 Pulse Graphs Settings

SSH clone URL  
git@github.com:dock... ⌂  
You can clone with [HTTPS](#), [SSH](#), or [Subversion](#).

Clone in Desktop Download ZIP

Creating container aware hosts everywhere



# Docker Swarm

 [docker / swarm](#)

[Watch](#) 214 [Unstar](#) 2,409 [Fork](#) 244

Swarm: a Docker-native clustering system — Edit

1,051 commits 3 branches 5 releases 46 contributors

branch: [master](#) / [swarm](#) / [+](#)

Merge pull request [#451](#) from vieux/number\_container

vieux authored 20 hours ago latest commit `3dfa0816c5`

File	Description	Time Ago
Godeps	update dockerclient	19 days ago
api	add support for docker ps -l / -n	9 days ago
cluster	pull only latest if no tag	20 hours ago
discovery	add an index and go make some small tweaks	21 days ago
docs	Add beta warning to docs	20 days ago
scheduler	Merge pull request #451 from vieux/number_container	a day ago
script	Enable coveralls.	5 days ago
state	state: Store container ID in requested state.	2 months ago
test/integration	Merge pull request #468 from vieux/ps_n_	8 days ago
version	add VERSION file	a month ago
.gitignore	improve locks	4 months ago

Code Issues Pull requests Wiki Pulse Graphs Settings

SSH clone URL: `git@github.com:docker/swarm`  
You can clone with [HTTPS](#), [SSH](#), or [Subversion](#).

[Clone in Desktop](#) [Download ZIP](#)

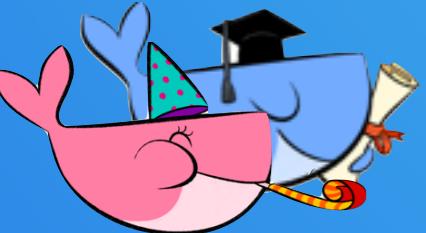
Native clustering for Docker hosts



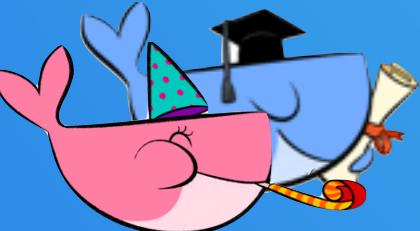
# Open Source Contributions



Open Source  
is more than  
programming

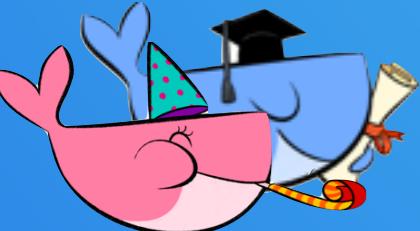


Here are a few  
different ways  
of getting  
involved

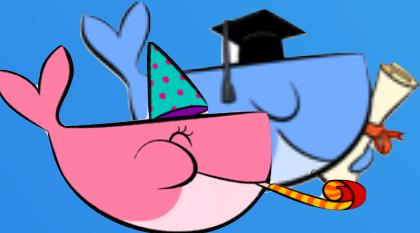


# Answer a question on

1. GitHub
2. The forums
3. The chatrooms & IRC
4. Stack Overflow

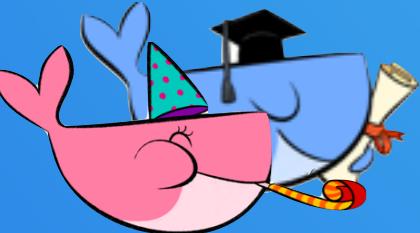


# Review the documentation



#writing  2

# Write some documentation



#writing



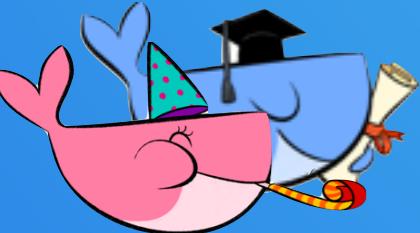
# Write a tutorial



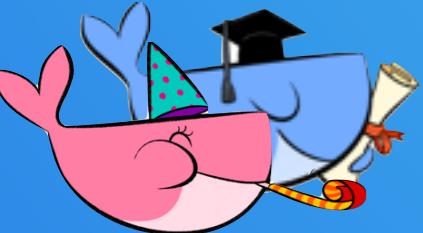
#teaching



# Write a blog post



# Screencast a feature



#teaching #video 2

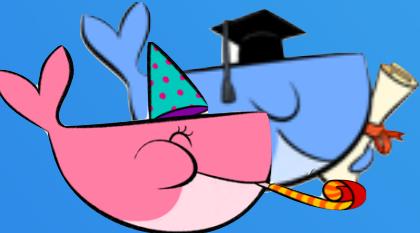
# File a Bug Report



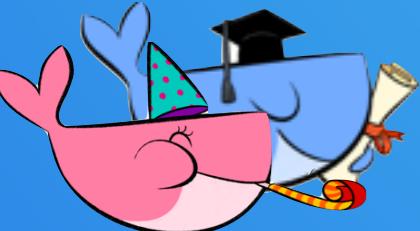
#bug



# Organize & Review Issues, Bugs & Tickets



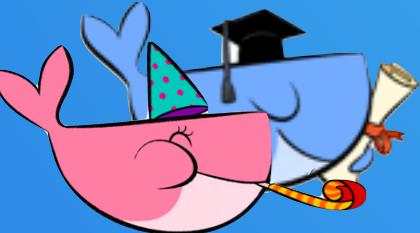
Contribute  
Artwork, Logos,  
Icons, Figures &  
Designs



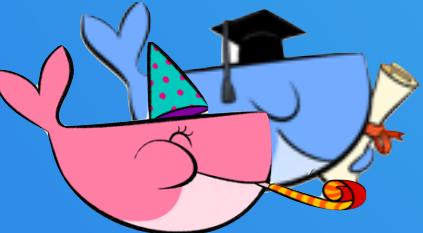
#graphics



The key to  
open source  
is ...



# Many People Making Small Improvements



# Docker.Party

Docker's Birthday Party

If it's your first time contributing to open source we strongly suggest you start with our [First Time Guide](#).

Events

Online

Contributing

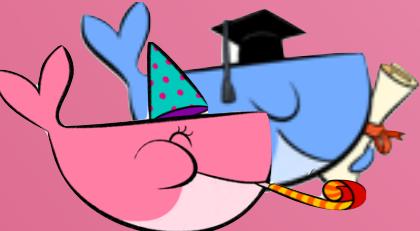
## Contributing Guides

- First Time
- Organize our issues
- Testing
- Screencasts
- Tutorials
- Graphics
- Mentorship
- Code
- Community
- Getting Started
- Documentation

Step by  
Step  
Guides



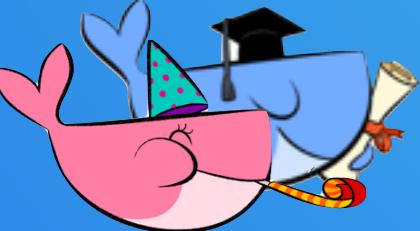
# How to Start Contributing to Open Source



Have a  
“How can I  
help attitude”

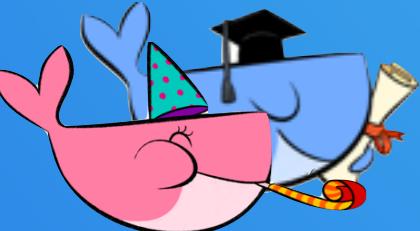


# Just a basic overview



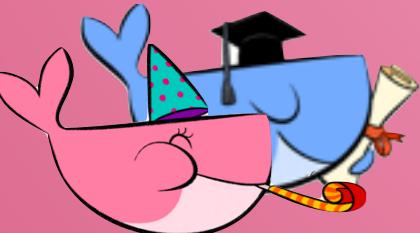
If you already  
contribute to open  
source...

Ignore the next part



# Step 0:

# Sign up for GitHub



# Sign up (it's free)

The screenshot shows the GitHub sign-up page with a light gray header containing the GitHub logo, 'Explore', 'Features', 'Enterprise', 'Blog', and a 'Sign in' button. Below the header, the main title 'Join GitHub' is displayed in large, bold, dark gray font, followed by the subtitle 'The best way to design, build, and ship software.' in a smaller, regular dark gray font. A horizontal navigation bar below the subtitle shows three steps: 'Step 1: Set up a personal account', 'Step 2: Choose your plan', and 'Step 3: Go to your dashboard'. The first step is highlighted with a blue icon of a person. The form for creating a personal account includes fields for 'Username' and 'Email Address'. To the right, a sidebar titled 'You'll love GitHub' lists benefits: 'Unlimited collaborators', 'Unlimited public repositories', 'Great communication', and 'Friction-less development'. Each benefit has a green checkmark icon.

**GitHub** Explore Features Enterprise Blog Sign in

## Join GitHub

The best way to design, build, and ship software.

Step 1:  
Set up a personal account

Step 2:  
Choose your plan

Step 3:  
Go to your dashboard

Create your personal account

Username

This will be your username — you can enter your organization's username next.

Email Address

You will occasionally receive account-related emails. We promise not to share your

You'll love GitHub

- Unlimited collaborators
- Unlimited public repositories
- Great communication
- Friction-less development



# GitHub.com



# Step 1:

# Install Docker





Search the Docs

What is Docker?

Use Cases

Try It!

Browse

Log In

Sign Up

About

Installation

User Guide

Docker Hub

Examples

Articles

Reference

Contribute

Learn the key concepts before installing

Install Boot2Docker

Start the Boot2Docker Application

From the Applications folder

From your command line

Basic Boot2Docker Exercises

Access container ports

Mount a volume on the container

Upgrade Boot2Docker

From the command line

Use the installer

Learning more and Acknowledgement

## Install Docker on Mac OS X

Version v1.5 (Latest)

Because the Docker daemon uses Linux-specific kernel features, you can't run Docker natively in OS X. Instead, you must install the Boot2Docker application. Boot2Docker includes a VirtualBox VM, Docker itself, and the Boot2Docker management tool.

The Boot2Docker management tool is a lightweight Linux virtual machine made specifically to run the Docker daemon on Mac OS X. The VirtualBox VM runs completely from RAM, is a small ~24MB download, and boots in approximately 5s.

Your Mac must be running OS X 10.6 "Snow Leopard" or newer to run Boot2Docker.

### Learn the key concepts before installing

In a Linux installation, your local machine is the Docker host. The Docker client, the Docker daemon, and any containers run directly on this host. This means you can address ports on a Docker container using standard addressing such as `localhost:8000` or `0.0.0.0:8376`.



[docs.docker.com/installation/](https://docs.docker.com/installation/)



# Step 2:

# Find an issue



# Find an Issue

- <http://docker.party/getting-started>
- Filter it to your experience  
(exp/novice < exp/master)
- Look for help-wanted



# Filter Issues Around Kind

kind/writing

kind/bug

kind/video

kind/proposal

kind/testing

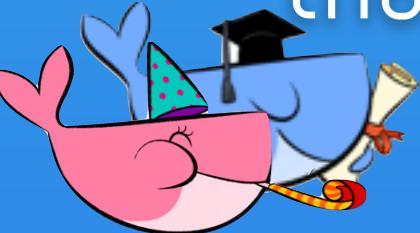
kind/cleanup

kind/graphics



# Call “#dibs”

- Add a comment with “#dibs”
- This will let everyone else know you are working on this issue
- It will remove it from the list (after a minute or two)
- After 48 hours of inactivity it will be returned to the list

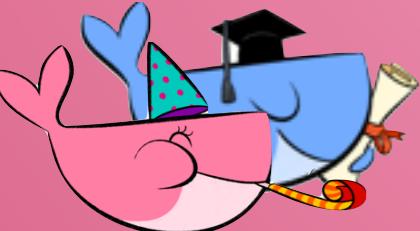


# Create Your Own Issue

- Have a great idea?
- Wish something was different?
- Most tickets are created by the person who will implement it
- They have a vested interest in its completion



# Step 3: Create a copy of Docker (Fork)



# github.com/docker

 Docker  
http://www.docker.com

[Filters](#)

**birthdaysite** Docker's Birthday Site Updated 10 minutes ago CSS ★ 1 ⚡ 4

**docker** Docker - the open-source application container engine Updated 24 minutes ago Go ★ 19,928 ⚡ 4,180

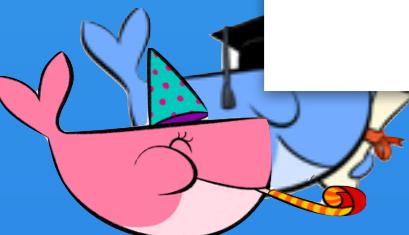
**libcontainer** Linux Containers Updated 4 hours ago Go ★ 720 ⚡ 190

**machine** Machine management for a container-centric world Updated 6 hours ago Go ★ 1,524 ⚡ 218

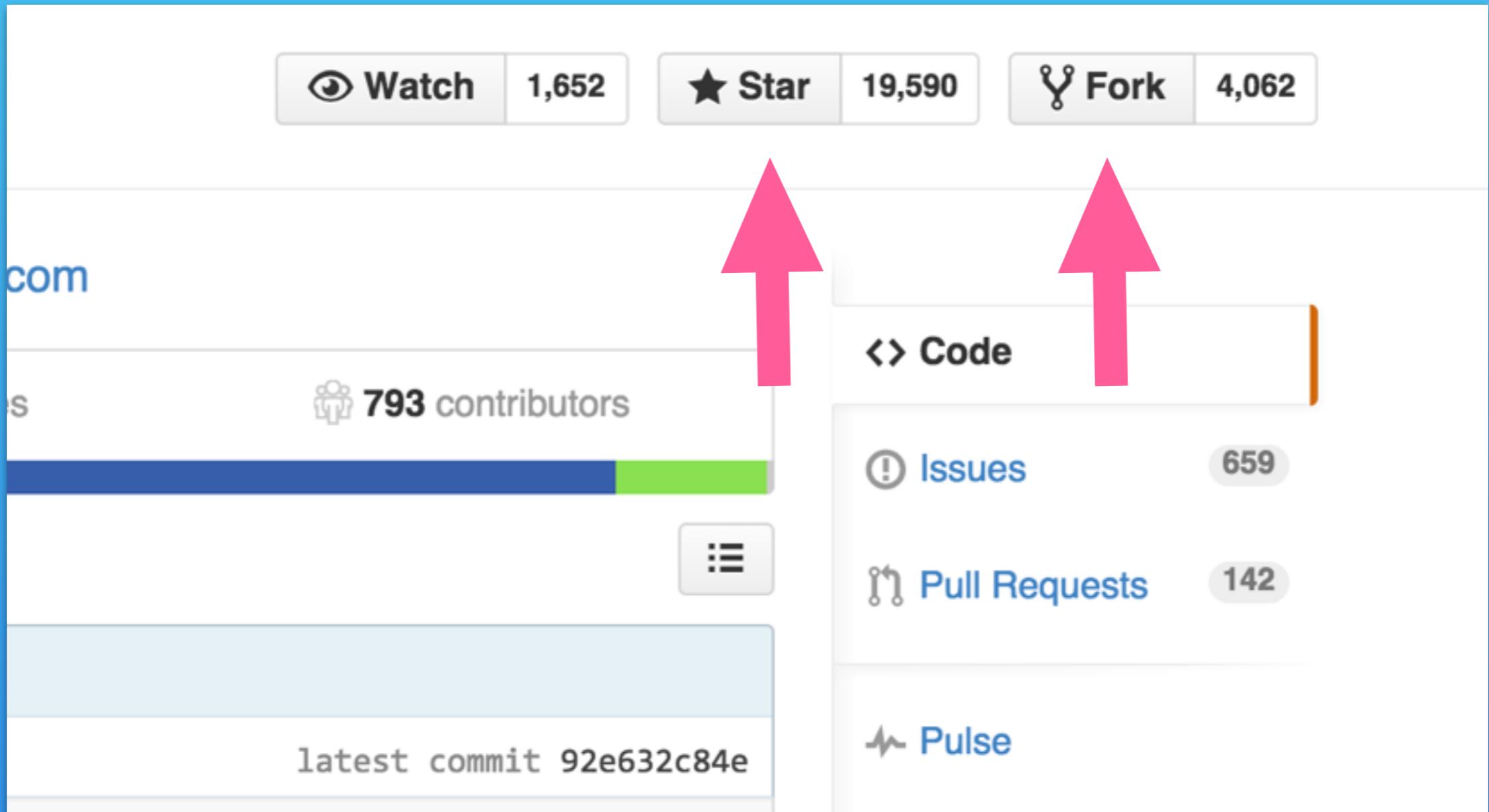
**People** 14 >



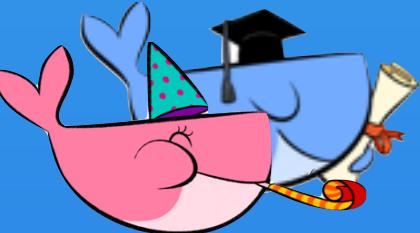
[REDACTED]



# github.com/docker/ docker



A screenshot of the Docker GitHub repository page. At the top, there are four buttons: 'Watch' (1,652), 'Star' (19,590), 'Fork' (4,062), and 'Code'. Two large pink arrows point upwards from the bottom of the page towards the 'Star' and 'Fork' counts. Below these buttons, the repository name 'com/docker/docker' is partially visible. In the center, there is a 'contributors' section showing '793 contributors' with a blue and green progress bar. To the right of the bar is a 'Code' button. Further down, there are sections for 'Issues' (659), 'Pull Requests' (142), and 'Pulse'. At the very bottom, it shows the 'latest commit' with the hash '92e632c84e'.



spf13 / docker

forked from [docker/docker](#)

13,715 commits 10 branches 85 releases 802 contributors

This branch is 1 commit ahead, 117 commits behind docker:master

Pull Request Compare

Adding kitematic to the readme

spf13 authored 4 days ago latest commit 21a857106f

Commit	Message	Time
api	Allow a non-existent groupid to own the docker socket	5 days ago
builder	Fix builder when num of RUN args is 1	7 days ago
builtins	Removing -X flag option and autogenerated code to create Dockerversio...	26 days ago
contrib	Move scripts back to hack/, leave docs in project/	5 days ago
daemon	Merge pull request #10238 from miminar/ephemeral-port-range-allocation	5 days ago
docker	cleanup defer func	8 days ago
dockerinit	pkg/reexec: move reexec code to a new package	4 months ago
docs	Merge pull request #11345 from x1022as/cli	5 days ago
engine	Merge pull request #10924 from tcnghia/master	6 days ago

Code Pull requests Pulse Graphs

HTTPS clone URL  
<https://github.com/spf13/>

You can clone with [HTTPS](#) or [Subversion](#).

Clone in Desktop Download ZIP

# github.com/YOURNAME/docker

This is your copy of the Docker project



The screenshot shows the Atlassian SourceTree application window. The title bar reads "Atlassian SourceTree". Below the title bar, a subtitle says "A free Git & Mercurial client for Windows or Mac." A blue button labeled "Download SourceTree Free" is present, along with links for "Mac OS X 10.7+" and "Download SourceTree for Windows 7+".

The main interface features a toolbar with various icons for committing, checking out, resetting, stash, adding, removing, and managing branches and tags. On the left, a sidebar displays "FILE STATUS" (Working), "BRANCHES" (master), "TAGS" (sparkle-1.5b1 through sparkle-1.5b6), "REMOTES" (SUHost.h), "STASHES" (SUHost.m), "SUBMODULES", and "SUBTREES". The central area shows a "Graph" view of the repository's history and a detailed "Commit" list. The commit list includes:

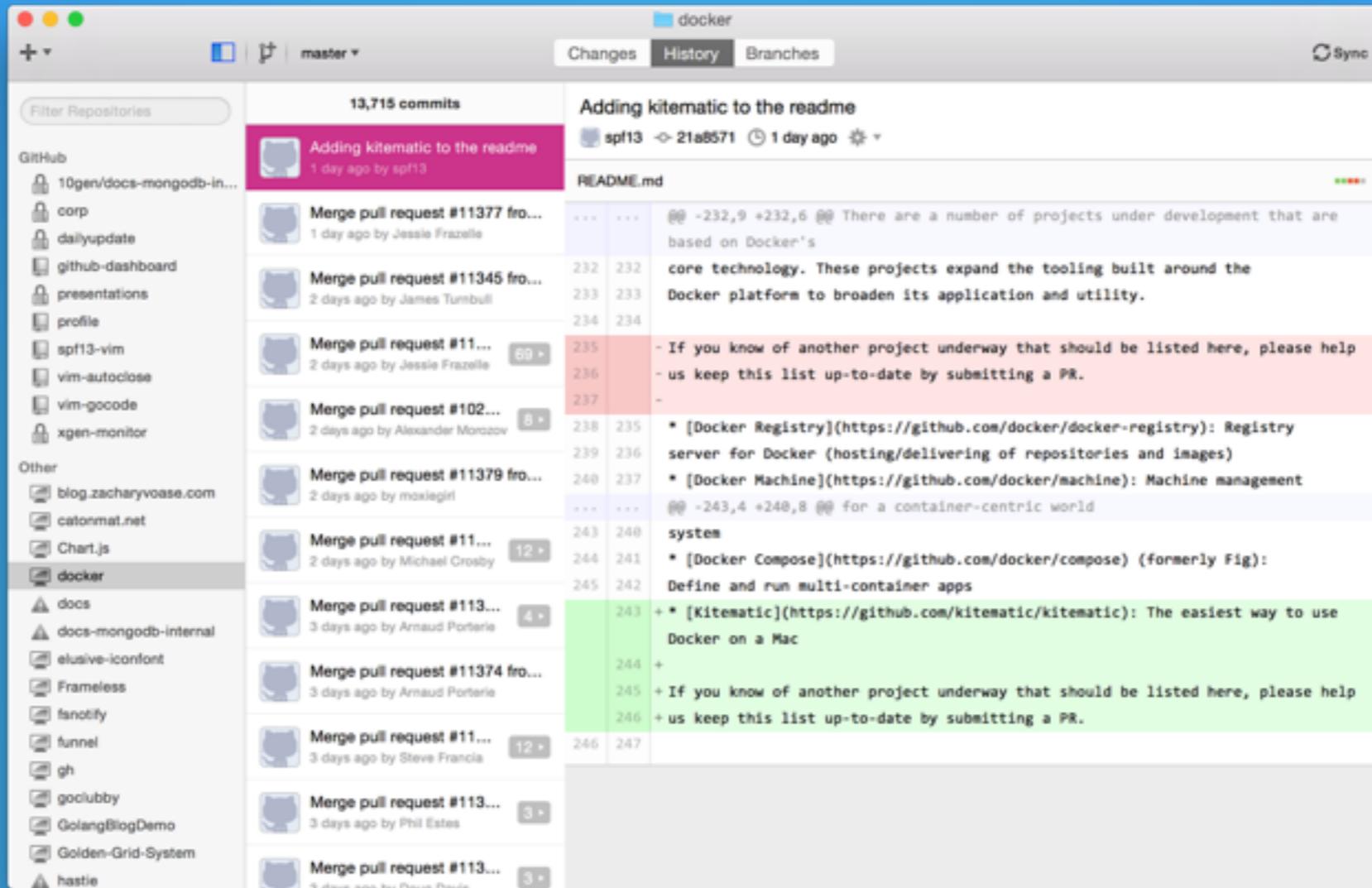
Commit	Description	Author	Date
f341d0c	Corrected minor spelling errors	Christian Zachariasen <c...>	Feb 22, 2012, 11:35 AM
e27828d	Merge pull request #144 from mattstevens/custom-defaults...	Andy Matuschak <andy@...>	Feb 14, 2012, 5:52 PM
44cf0d0	Merge pull request #145 from mattstevens/install-on-quit...	Andy Matuschak <andy@...>	Feb 14, 2012, 5:48 PM
6be5568	Clean up after install on quit updates	Matt Stevens <matt@allo...>	Feb 13, 2012, 3:02 AM
29b7321	Support a custom user defaults domain	Matt Stevens <matt@allo...>	Feb 11, 2012, 10:31 PM
449b00e	Merge pull request #139 from mattstevens/pathToRelaunch	Andy Matuschak <andy@...>	Feb 9, 2012, 6:37 AM
4c25737	Merge pull request #142 from mzch/master	Andy Matuschak <andy@...>	Feb 9, 2012, 6:14 AM
88d4b34	Improved Japanese translations	Koichi MATSUMOTO <mz...>	Feb 8, 2012, 6:37 AM

A code editor window titled "SUHost.m" is open, showing a hunk of code with line numbers 25 to 29. The code contains a log message and logic related to bundle identifiers.

# SourceTree

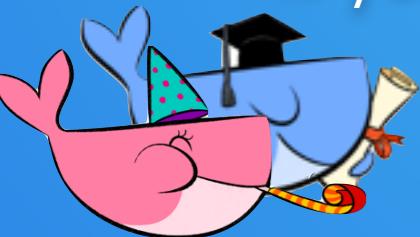
If you are new to Git & not comfortable with the command line





# GitHub for Mac & Win

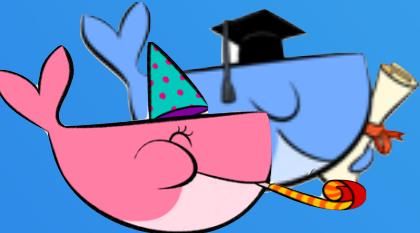
If you are new to Git & not comfortable with the command line



# Step 4: Create your contribution



This is where  
you work  
your magic



# Docker.Party

Docker's Birthday Party

If it's your first time contributing to open source we strongly suggest you start with our [First Time Guide](#).

Events

Online

Contributing

## Contributing Guides

- First Time
- Organize our issues
- Testing
- Screencasts
- Tutorials
- Graphics
- Mentorship
- Code
- Community
- Getting Started
- Documentation

Step by  
Step  
Guides



# Step 5:

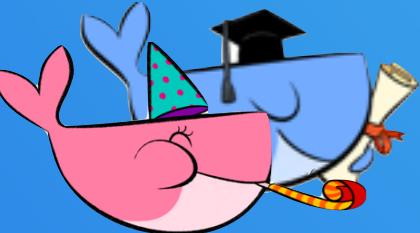
# Contribute



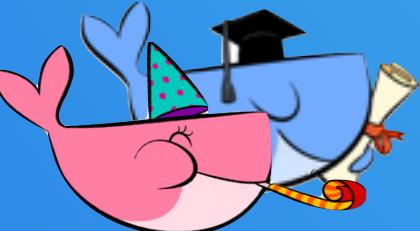
The screenshot shows a forum post in the "Share" category. The post is by user "spf13" (Leader) and was created 16 hours ago. The post text encourages users to share contributions made outside of Docker's git repositories, such as blog posts, videos, tutorials, and graphics. A "Share away" button is present. Below the post, there is a "Log in to Reply" button. A "Suggested Topics" section follows, featuring a single topic: "Welcome to Discourse". The table for this topic shows 0 replies, 0 views, and activity from 2 days ago. At the bottom, a message invites users to browse other topics in the "Share" category or view the latest topics.

Topic	Category	Replies	Views	Activity
>Welcome to Discourse		0	0	2d

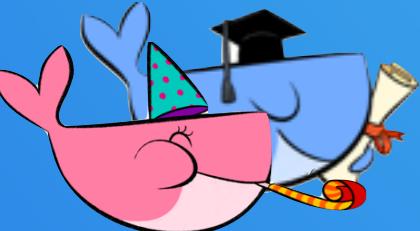
Add contributions made outside git to the contributor forum under “Share”



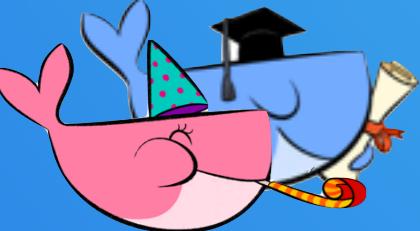
When  
working with  
the repo



**Commit to  
your local  
fork  
(with signing)**



# Send a Pull Request



# Getting Help



# Getting Help

- Ask questions in the contributor forum
- Get help in the Docker gitter.im chatroom  
(dedicated to begining contributors)
- Get help in IRC - #docker-dev on freenode  
(for more advanced contributors)



# #help-wanted

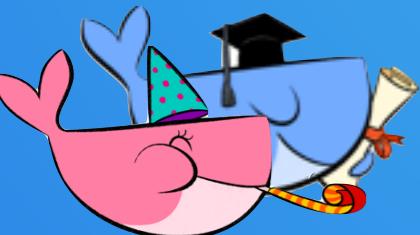
- Add a comment with “#help-wanted”
- This will let mentors and the core team know you want help
- Please explain what you need help with in the #help-wanted comment



**what's  
Next?**



# Introducing Your Mentors



# what's Next

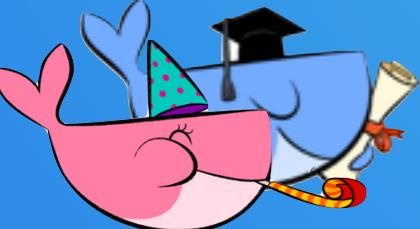
Break out into groups:

1. Non code contributions
2. Beginner Code contributions  
(either new to Go or Docker)
3. Advanced Code contributions  
(advanced users are encouraged to mentor)



**Now - 9pm :  
Work on  
Contributions**

**9pm : Eat Cake**



# After tonight

- Please continue to make contributions
- The help channels are open 24/7/365
- Moby, Molly & the other whales will thank you for it

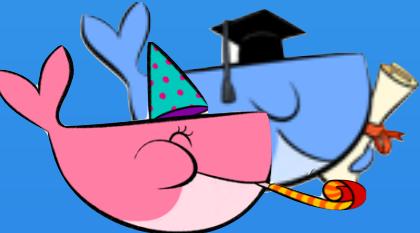
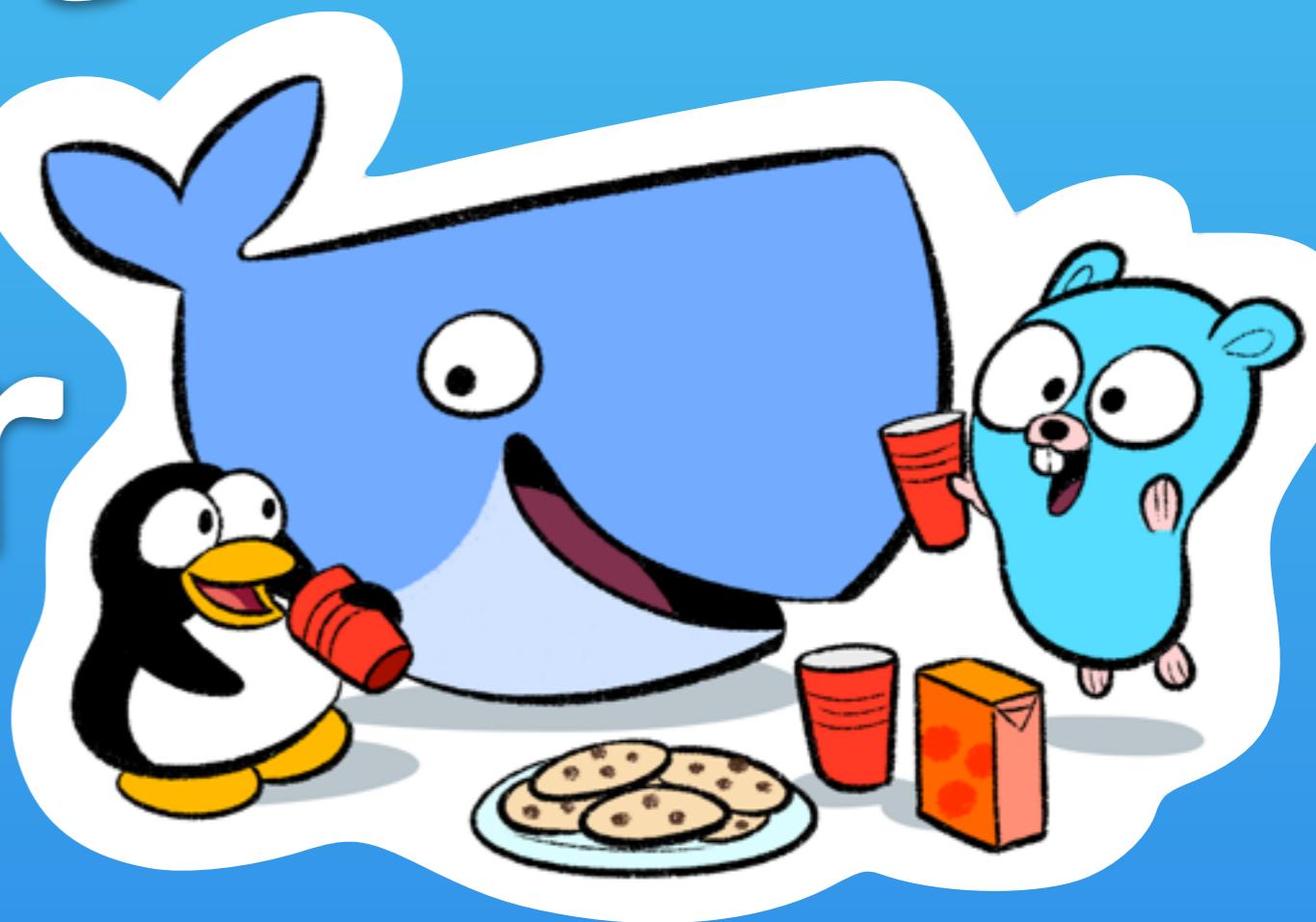


# Be Kind

- Over 2000 people are participating
- More than double Docker's total contributors to date
- Be helpful, Be patient and Be kind



# Let's Make Something Great Together



#dockerbday

2