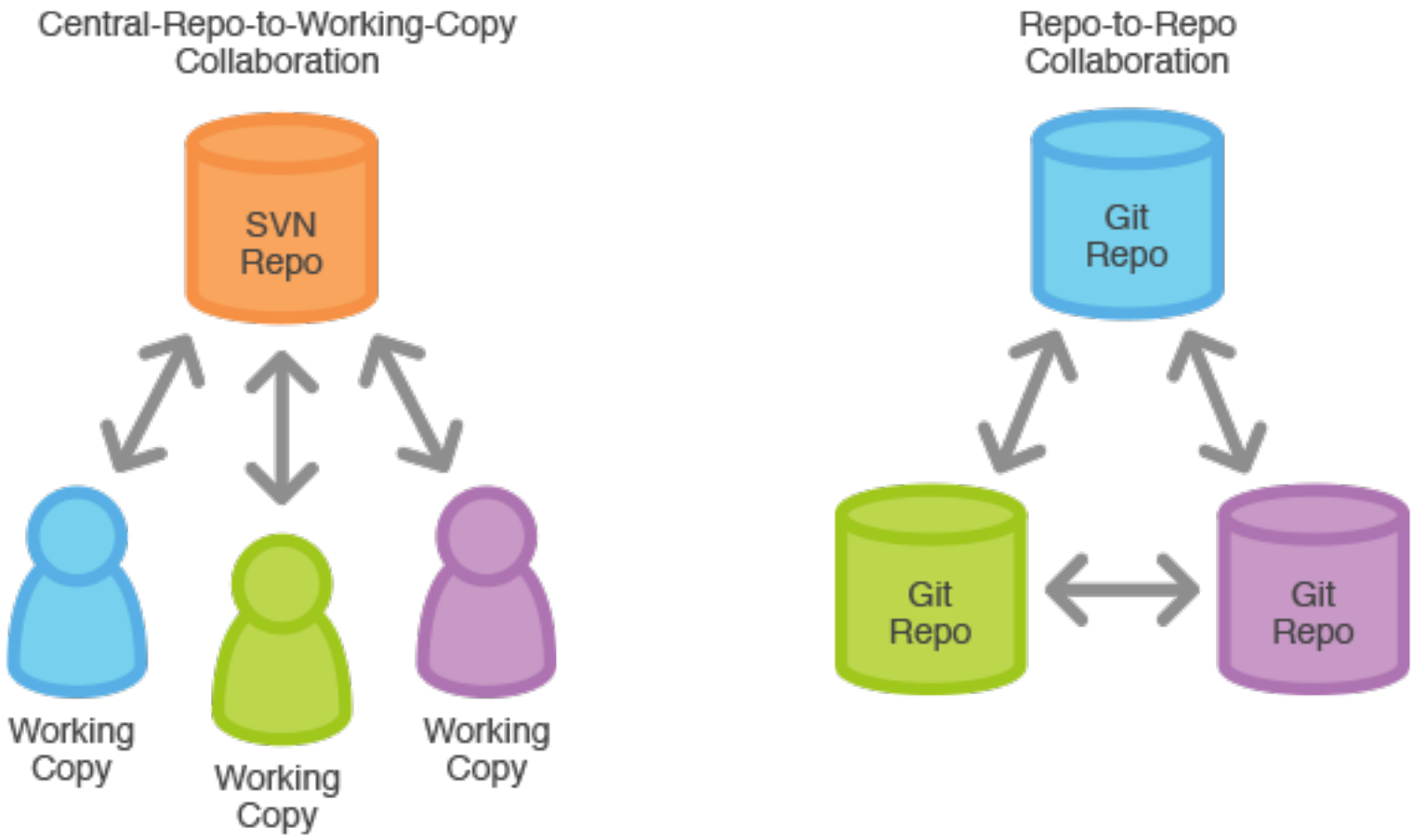
Meerkat workflow

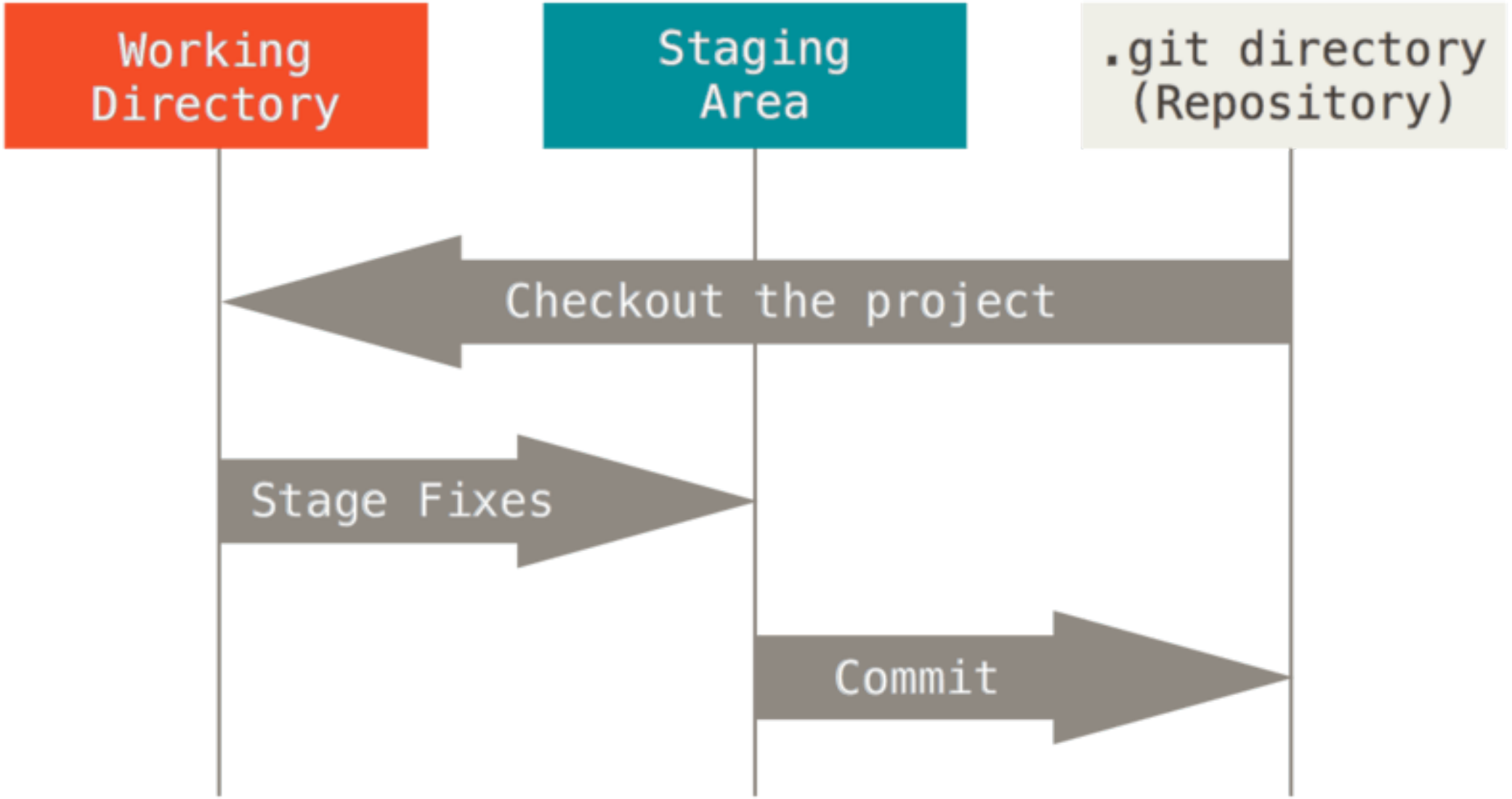
Mix (Mikolaj Kundegorski)
28 Feb 2017

Distributed version control system



Source: http://sgdev-blog.blogspot.com/2014_03_01_archive.

Git: working locally

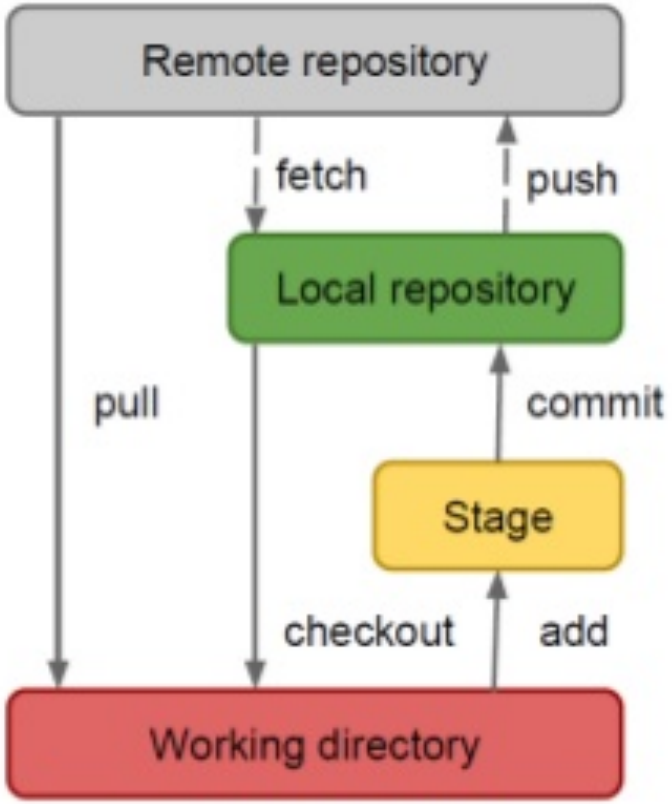


Source: https://git-scm.com/book/en/v2/Getting-Started-Git-Basics

Git: communiacting with “remote”

Understanding of Workflow

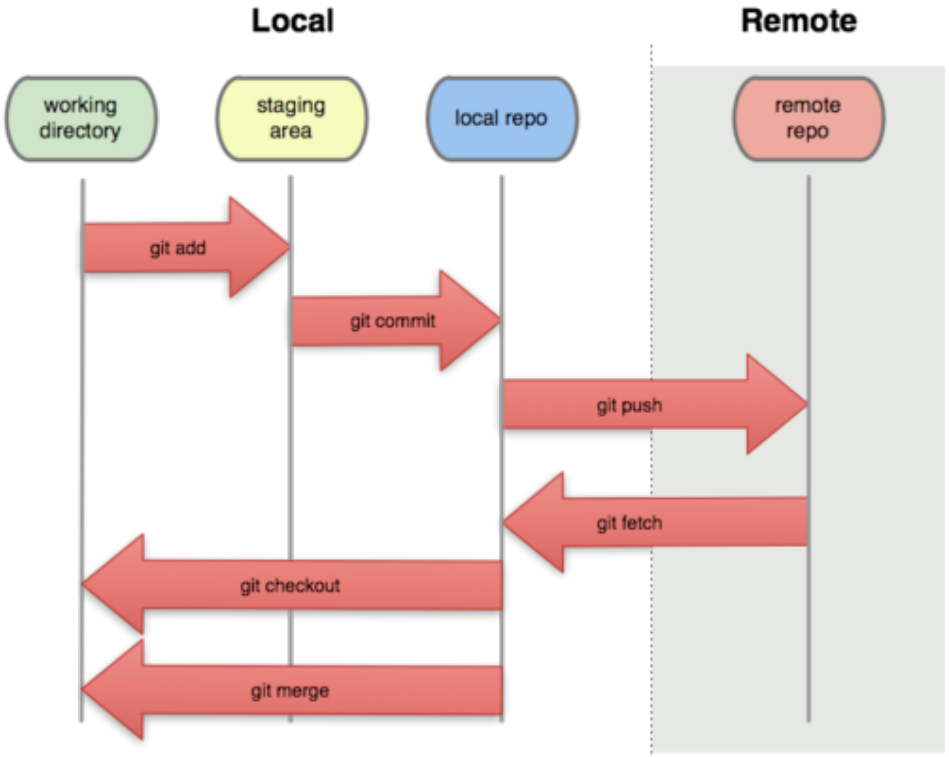
- Obtain a repository
  - *git init* or *git clone*
- Make some changes
- Stage your changes
  - *git add*
- Commit changes to the local repository
  - git commit –m “My message”
- Push changes to remote
  - git push remotename remotebranch



Source: https://www.slideshare.net/garyyeh165/git-51265752

Remote repository

- Acts as a backup
- Can be on a local server, service (github.com, bitbucket.com) or any other machine on the network
- Let's clone our training repository! https://github.com/meerkat-code/training



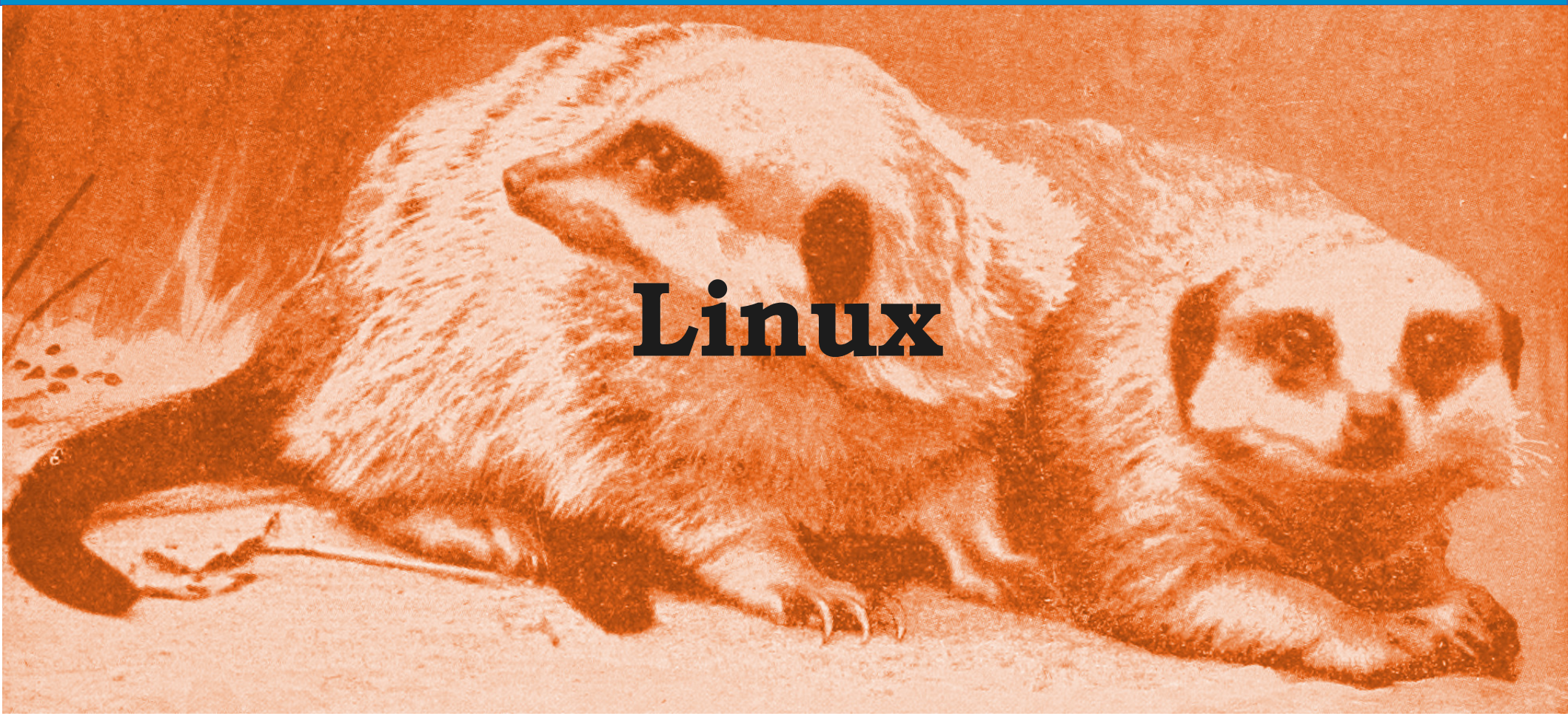
Source: http://manvirbasra.com/category/uncategor

Git workflow

- Let's practice:
- https://try.github.io/levels/1/challenges/1
- https://github.com/meerkat-code/meerkat_git_training

Source: https://buddy.works/blog/5-types-of-git-workflows

Meerkat workflow



Mix (Mikolaj Kundegorski)

28 Feb 2017

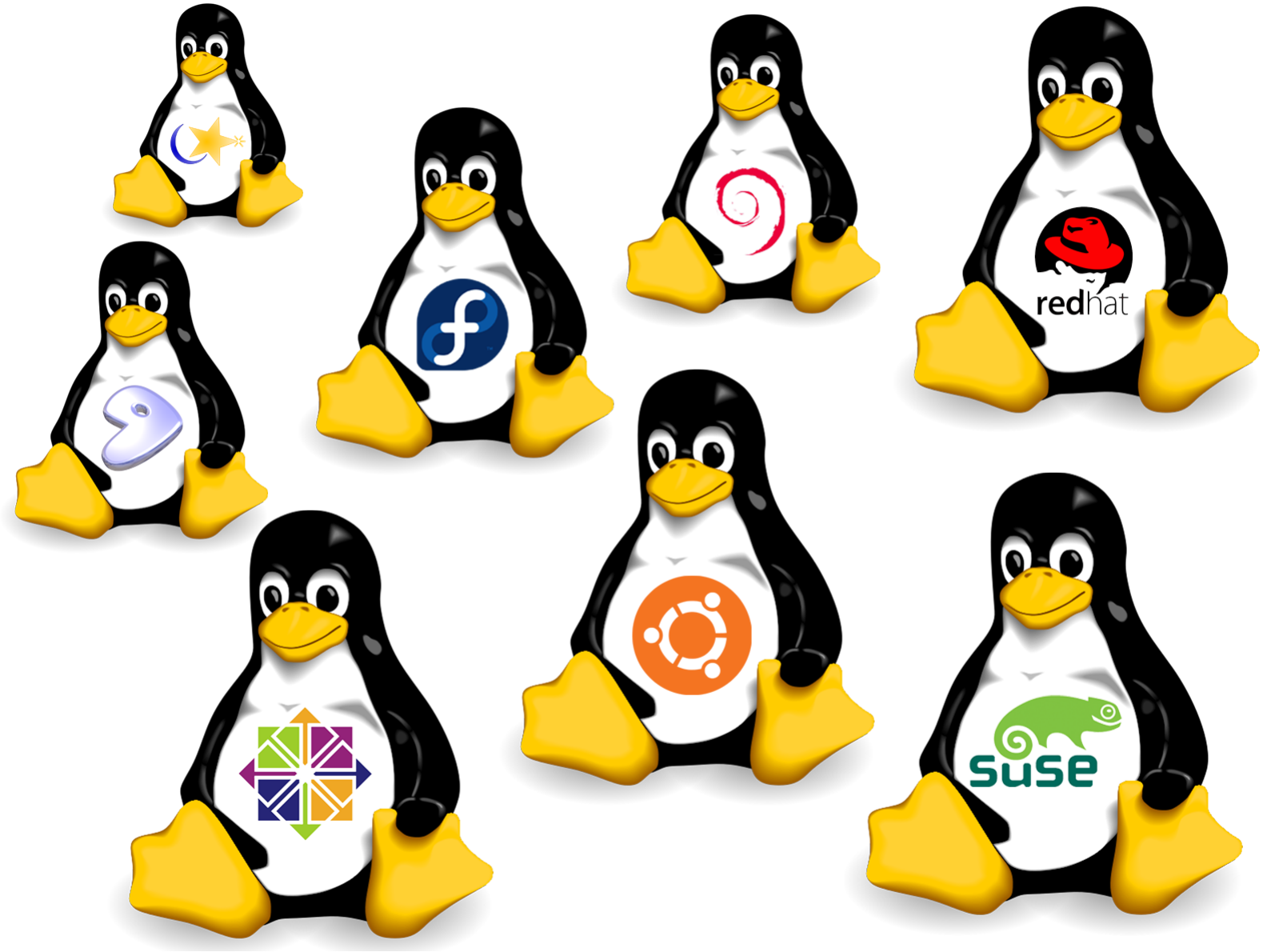
What is UNIX

Peter H Salus in A Quarter-Century of Unix (1994): This is the Unix philosophy:

- Write programs that do one thing and do it well.
- Write programs to work together.
- Write programs to handle text streams, because that is a universal interface.

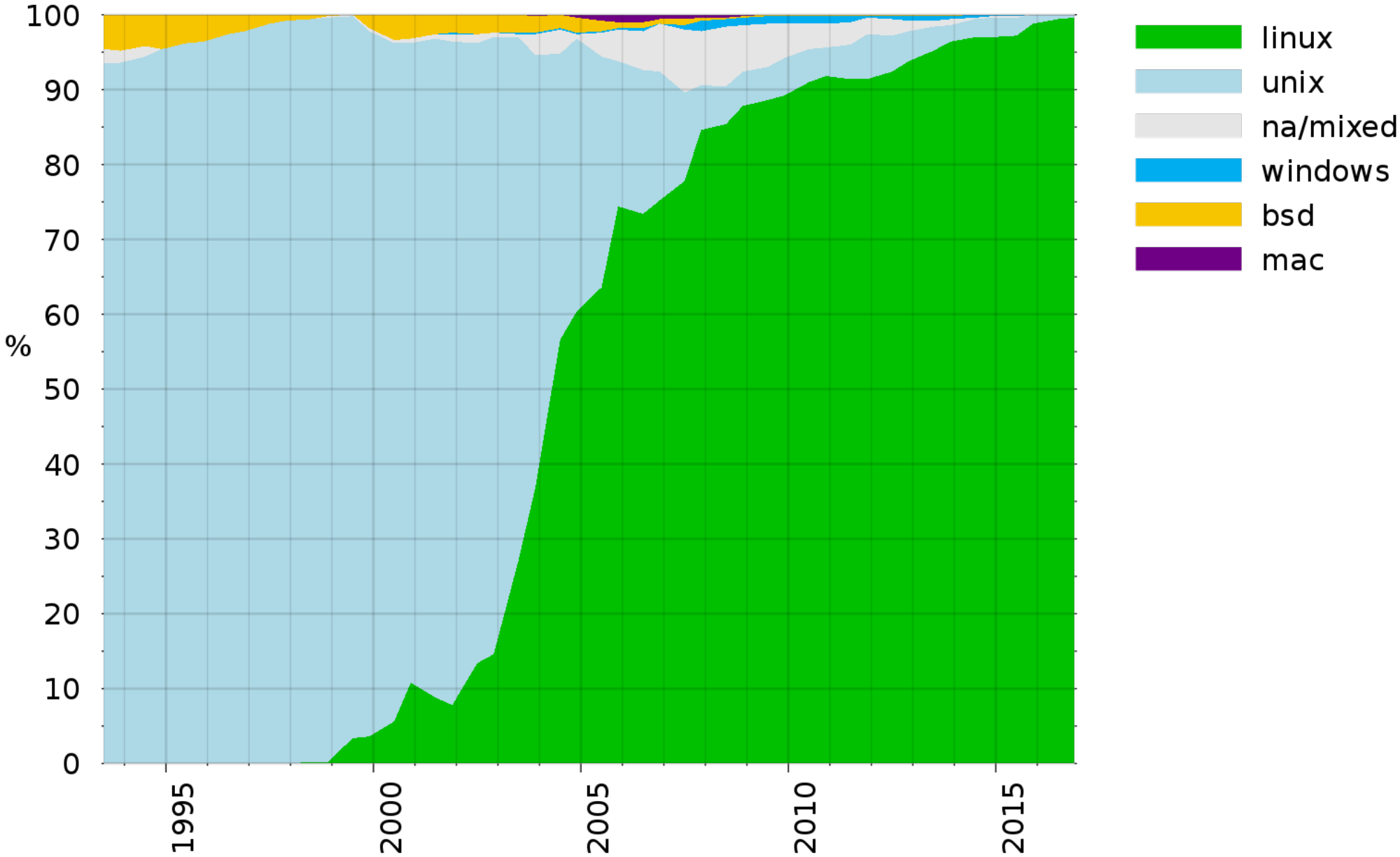
Linux

A family of free unix-like OS



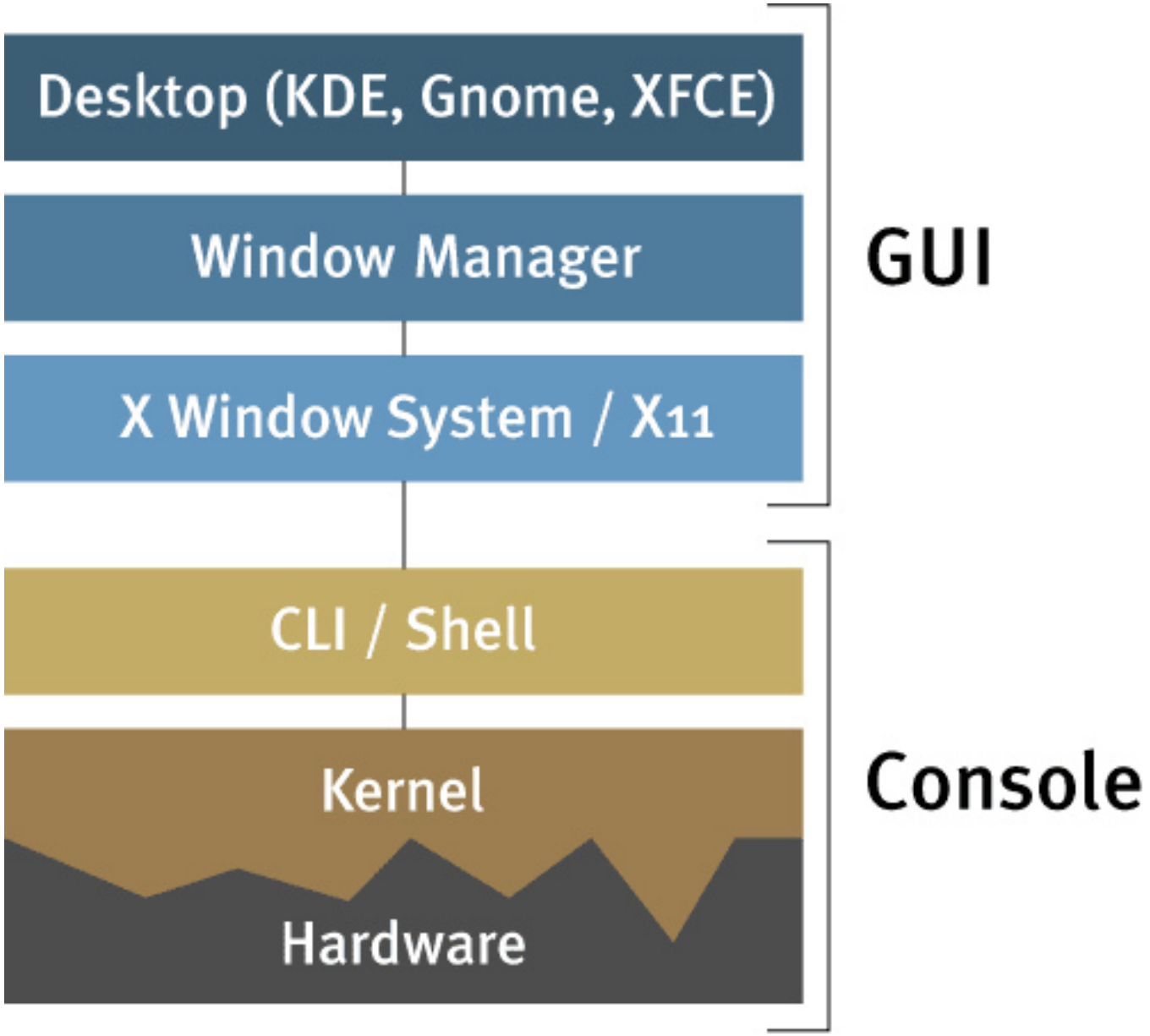
Source: q-linux.com

Top 500 supercomputers



Source: wikipedia

Linux architecture

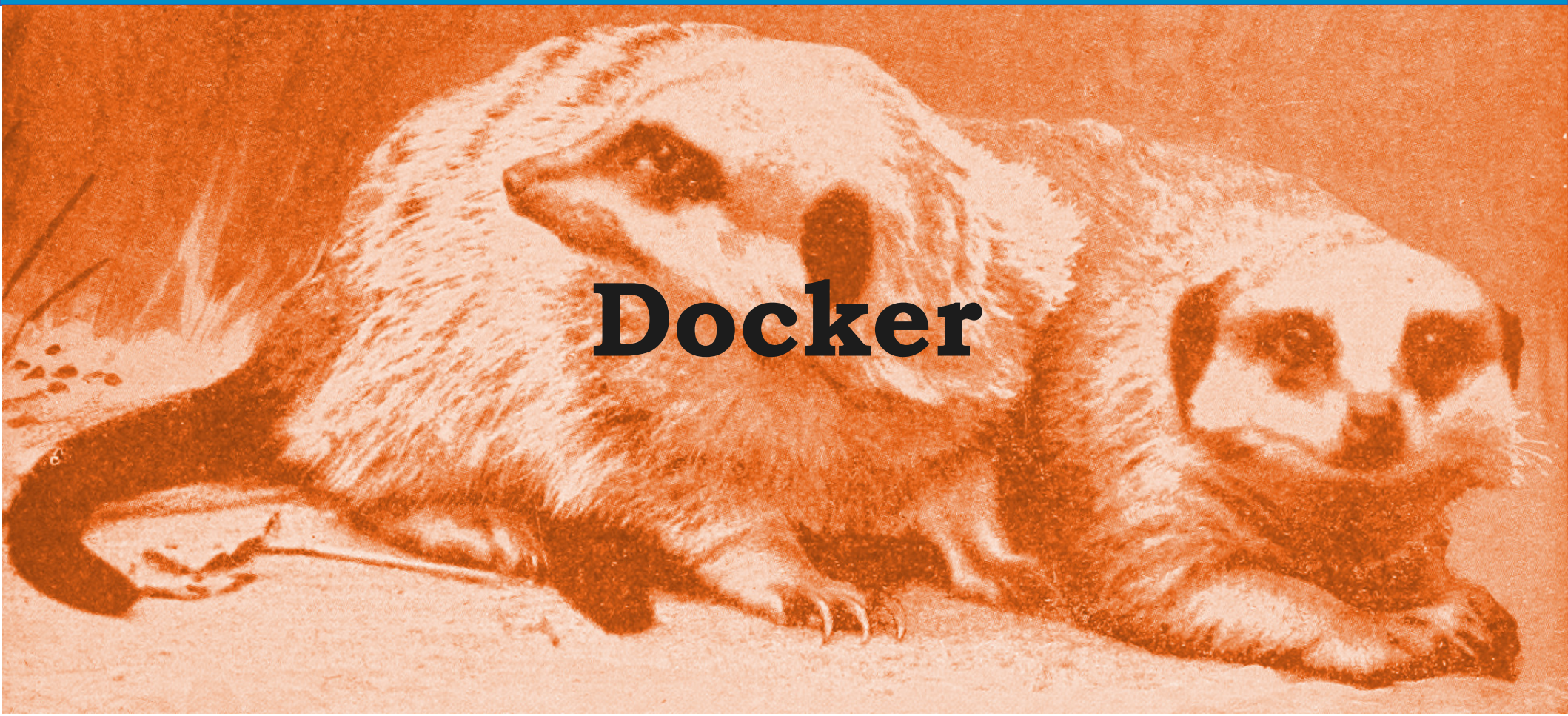


Source:evidentsolutions.com

UNIX tutorial

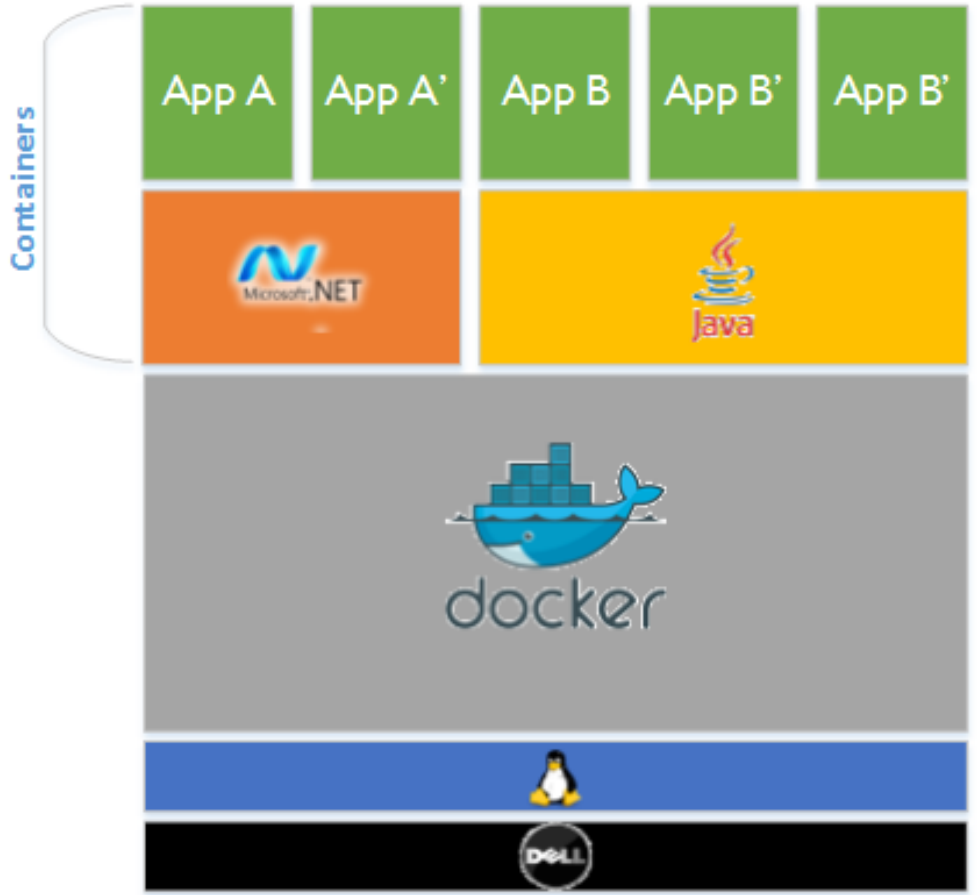
- http://www.ee.surrey.ac.uk/Teaching/Unix/index.html
- Use boot2docker linux which shares filesystem with your Windows machine

Meerkat workflow



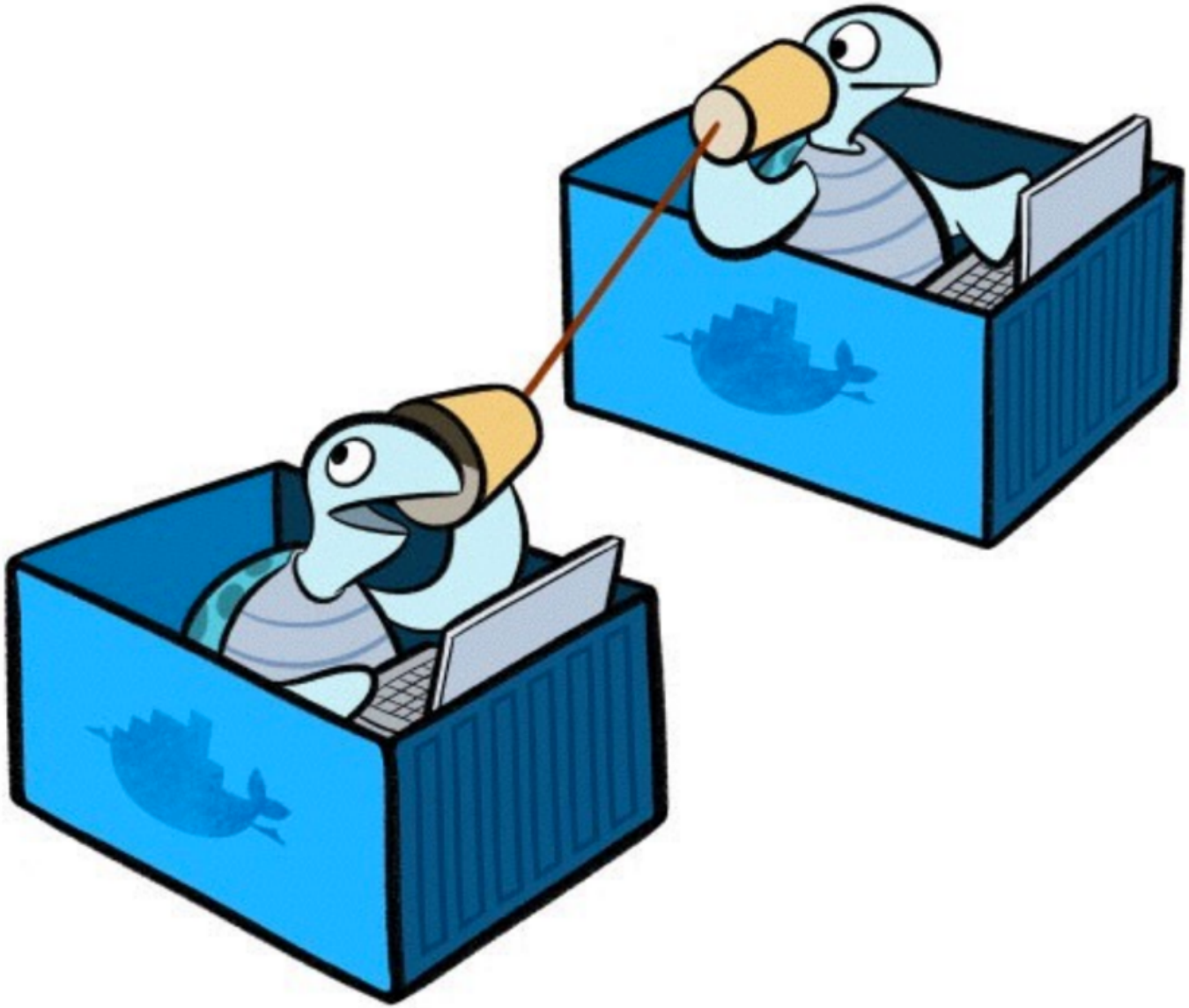
Mix (Mikolaj Kundegorski)
28 Feb 2017

Virtualisation and contenerisation



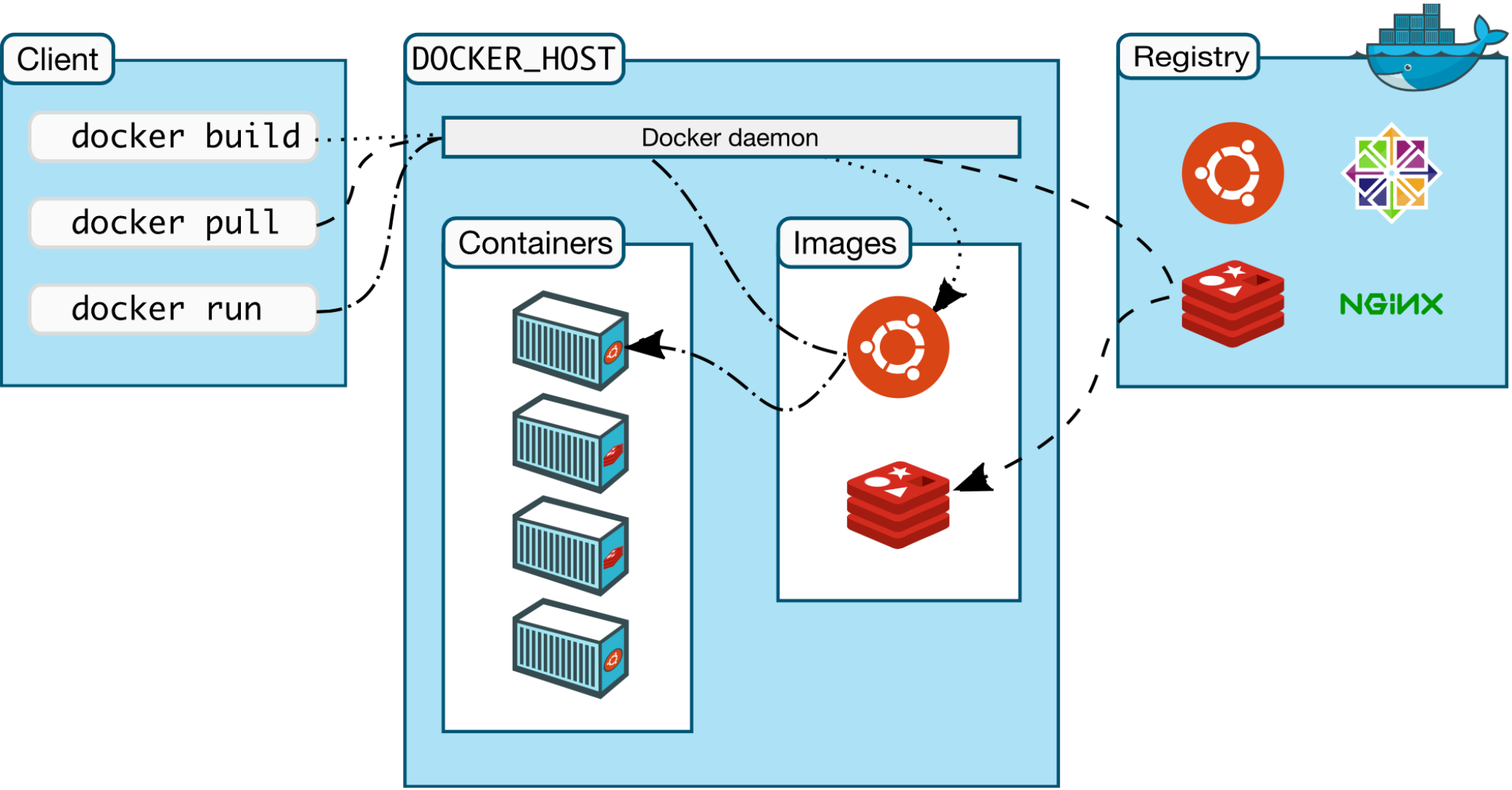
Source: http://shoxx-website.com/2015/09/docke

Contenerisation



Source: http://blog.arungupta.me/docker-bridge-overlay-network-compose-variable-substitution/

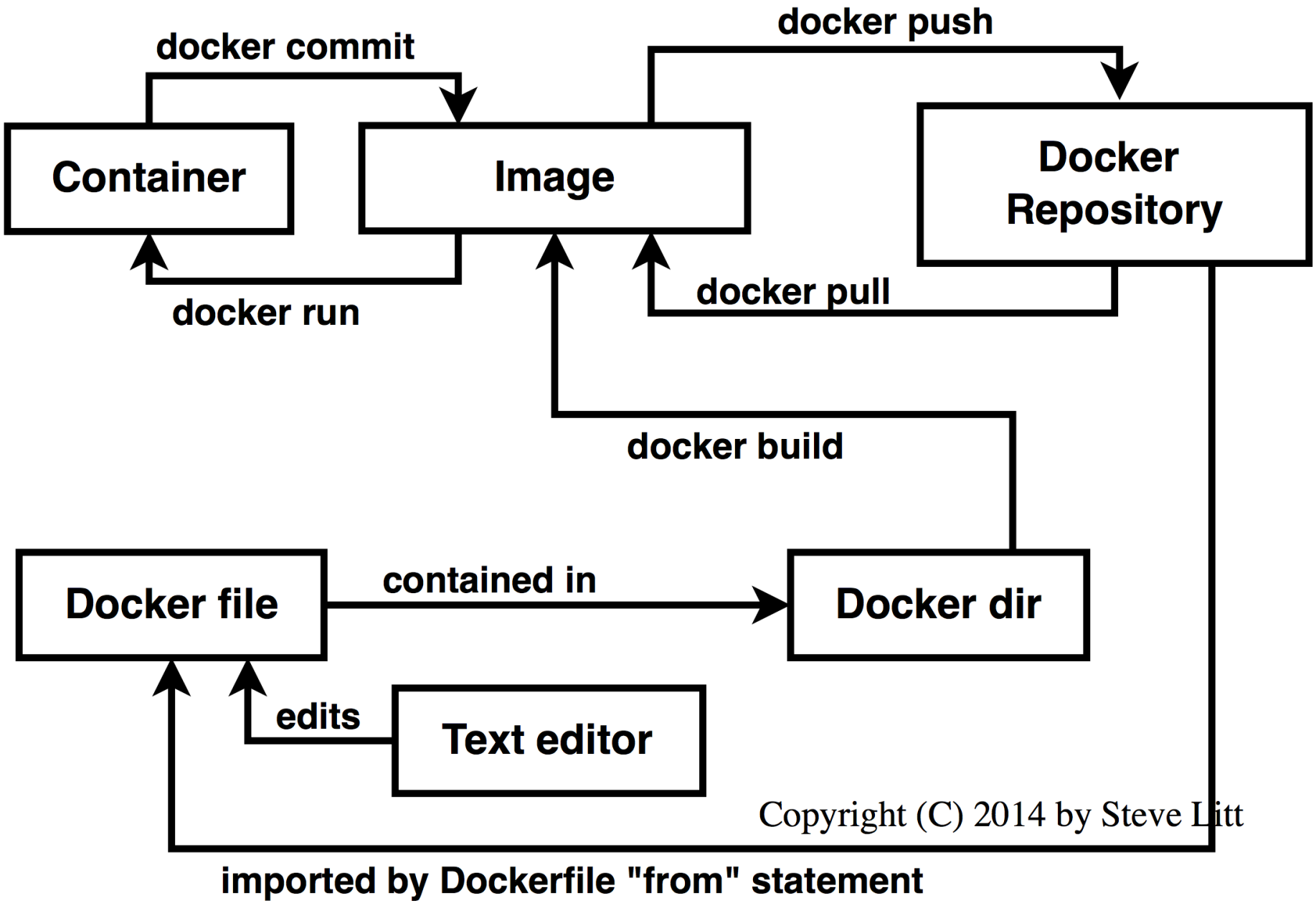
Docker



https://docs.docker.com/engine/understanding-docker/

Source: official docs

Docker workflow



Source:http://www.troubleshooters.com/linux/docker/docker_newbie.htm

Docker tutorial

- https://docs.docker.com/engine/getstarted/step_one/ (start with Step 3, verifying your installation)
- “Find and run the whalesay image”, skip steps 1-2
- Finish tutorials by building your own container

- Docker compose (if network allows):
  https://docs.docker.com/compose/gettingstarted/

Thank you and good luck!