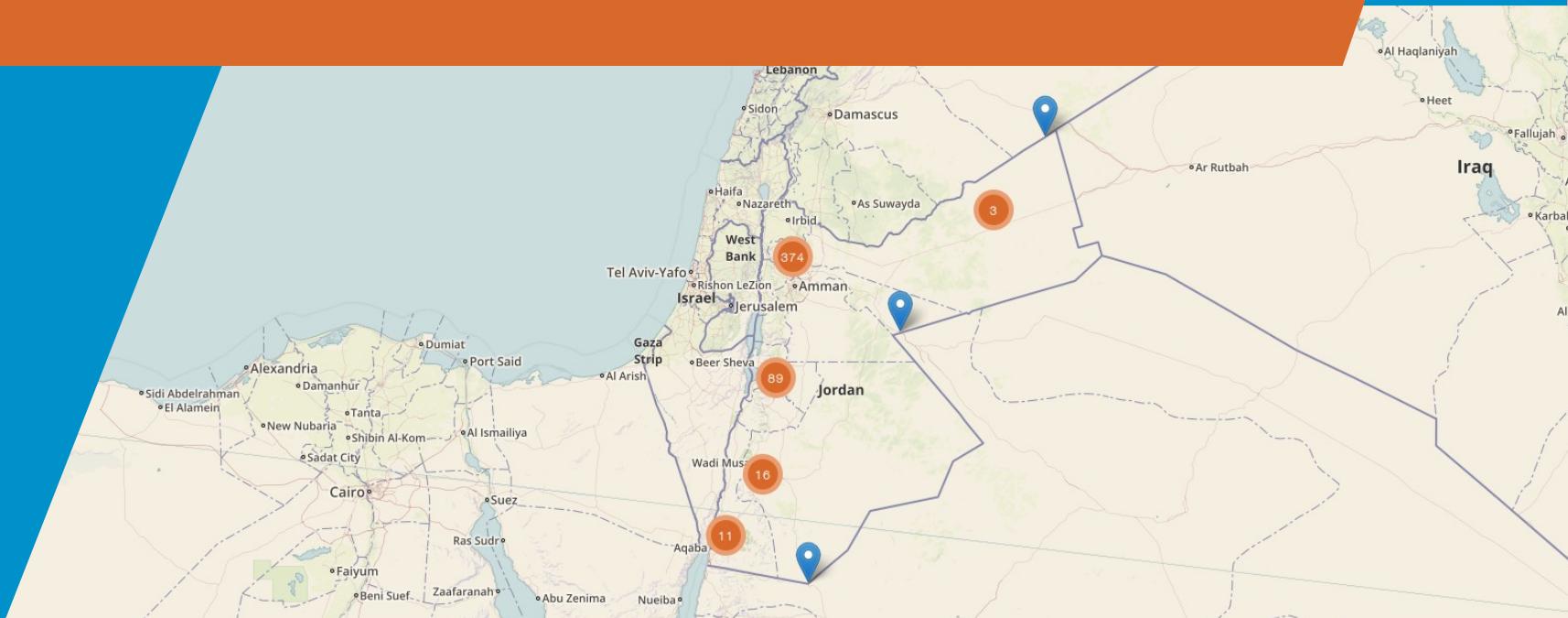




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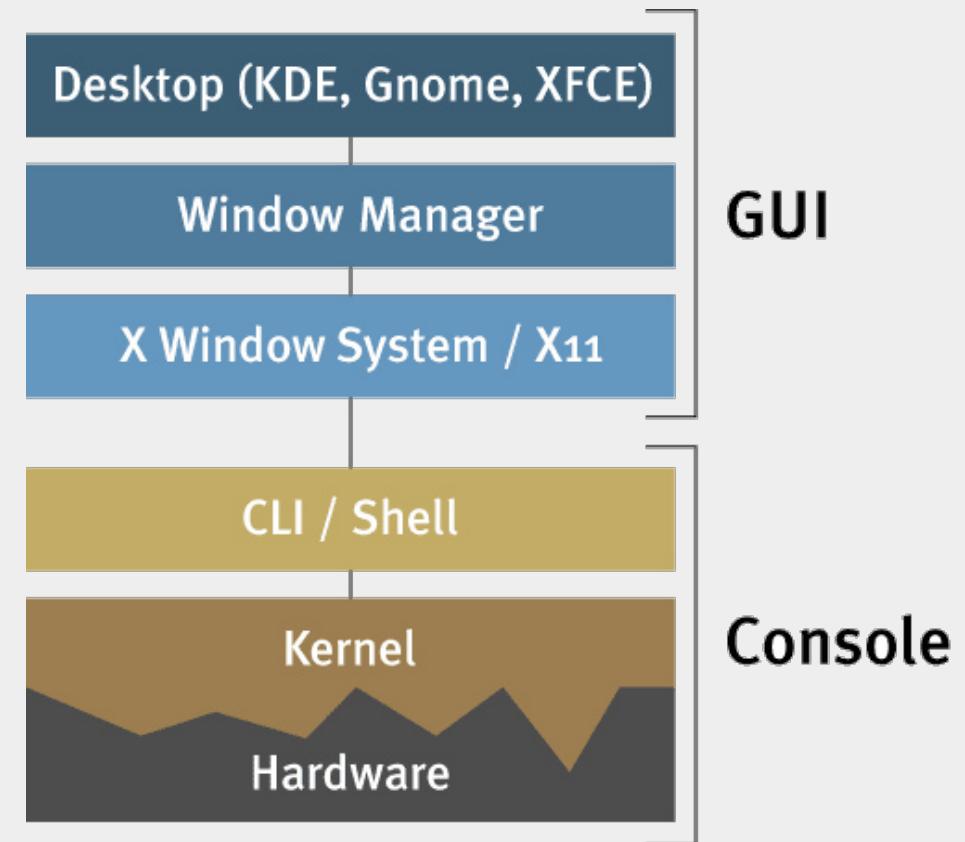
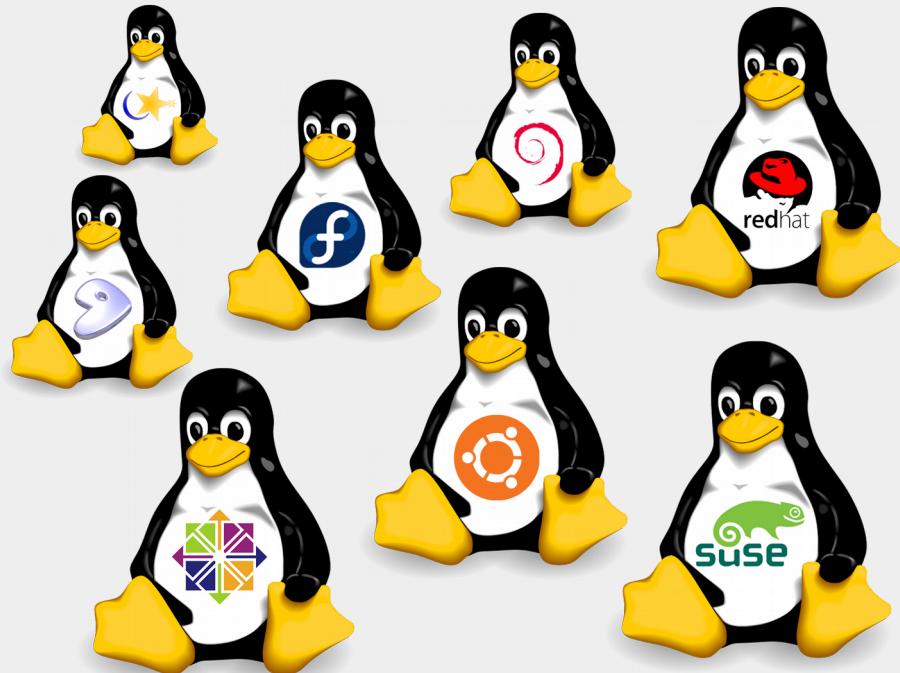


Meerkat Software Training
Recapping Linux & Docker

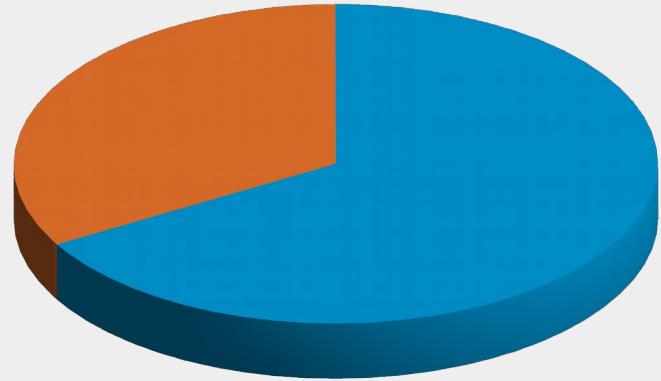
Overview

- **Talk:** Recapping Linux [15]
Exercises: SSH & Getting started with Linux [45]
- **Exercises:** The command line [60]
Talk: Text editing from the command line [15]
Exercises: Text editing and more command line [60]
- **Talk:** Introduction to Docker [15]
Exercises: Installing docker [30]
Exercises: Getting started with docker [45]
- **Exercises:** Meerkat Development Environment [75]

What is Linux?



Why Linux?



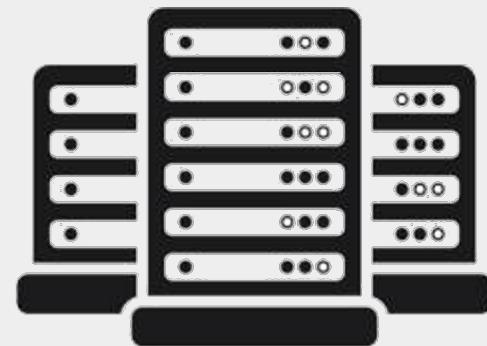
66% use in
public servers

71%
of mobile devices
(Android)



Power.
Flexibility.
Support.

100% use in
Top500 supercomputers



Source: https://en.wikipedia.org/wiki/Usage_share_of_operating_systems

How do we use Linux?

```
jonathan@ullswater:~$ whoami
jonathan
jonathan@ullswater:~$ cd meerkat/
jonathan@ullswater:~/meerkat$ ls
bower_components    meerkat_analysis  meerkat_docs      meerkat_jordan   meerkat_puntland  meerkat_tunnel
deploy               meerkat_api       meerkat_forager  meerkat_libs     meerkat_rms      node_modules
Dr Jonathan S Berry  meerkat_auth    meerkat_forms    meerkat_logging  meerkat_runner  training
Fjelltopp Ltd        meerkat_consul  meerkat_frontend  meerkat_mad     meerkat_somalia  website
meerkat              meerkat_deploy  meerkat_hermes   meerkat_mob    meerkat_somaliland who-collect
meerkat_abacus       meerkat_dev     meerkat_infrastructure  meerkat_nest
jonathan@ullswater:~/meerkat$ cd meerkat_dev/compose/
jonathan@ullswater:~/meerkat/meerkat_dev/compose$ docker-compose up -d
Starting compose_db_1 ...
Starting compose_auth_1 ...
Starting compose_mob_1 ...
Starting compose_hermes_1 ...
Starting compose_api_1 ...
Starting compose_rabbit_1 ...
Starting compose_dynamodb_1 ...
Starting compose_frontend_1 ...
Starting compose_rabbit_1 ... done
Starting compose_frontend_1 ... done
Starting compose_runner_1 ... done
Starting compose_auth_1 ... done
Starting compose_nginx_1 ... done
jonathan@ullswater:~/meerkat/meerkat_dev/compose$ █
```



PuTTY

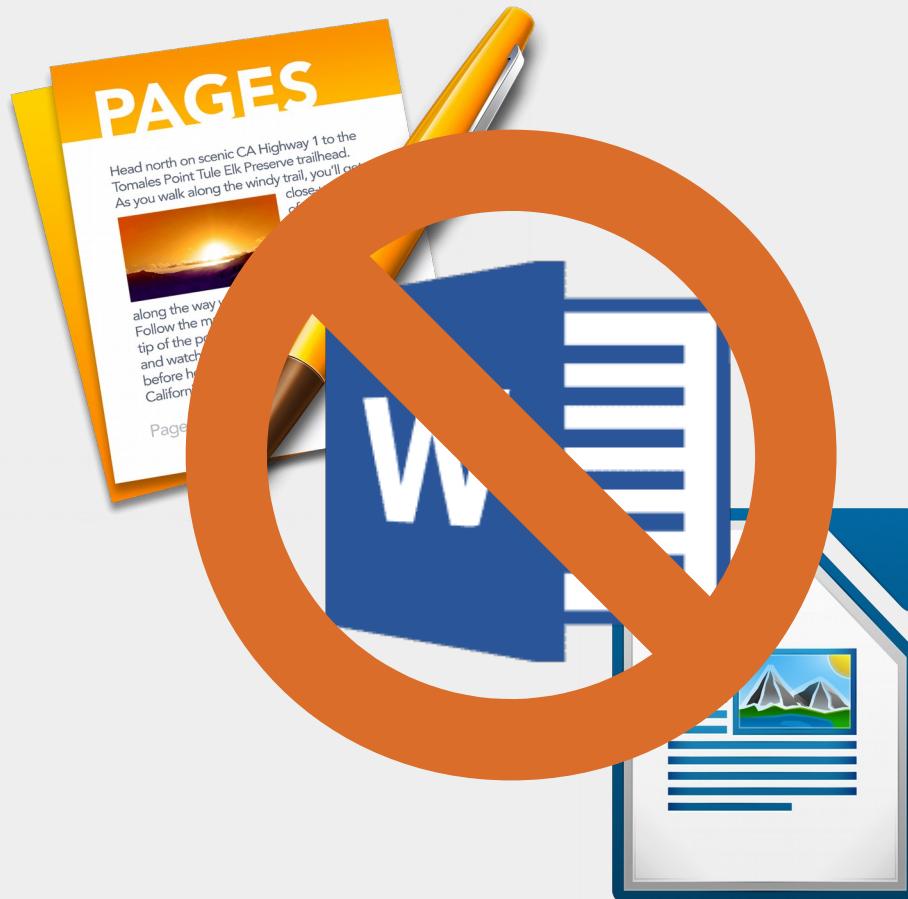
Exercise: SSH into a linux server

Installing and using PuTTY

Exercise: The Command Line

<http://guide.bash.academy/>

Editing text documents



No mice.
No windows.
No graphics.

VIM: My personal text editor of choice

jonathan@ullswater: ~

22:02

```
VIM - Vi IMproved
version 7.4.1689
by Bram Moolenaar et al.
Modified by pkg-vim-maintainers@lists.alioth.debian.org
Vim is open source and freely distributable

      Become a registered Vim user!
type :help register<Enter>    for information

type :q<Enter>                to exit
type :help<Enter> or <F1>     for on-line help
type :help version7<Enter>    for version info
```

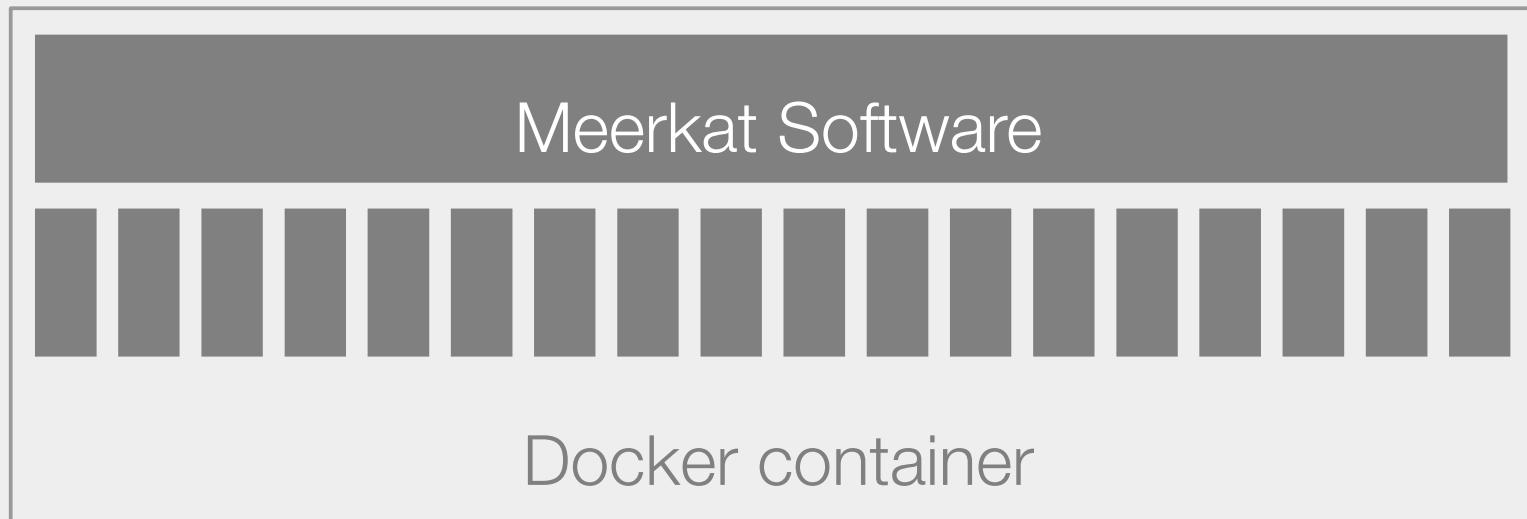
0,0-1

All

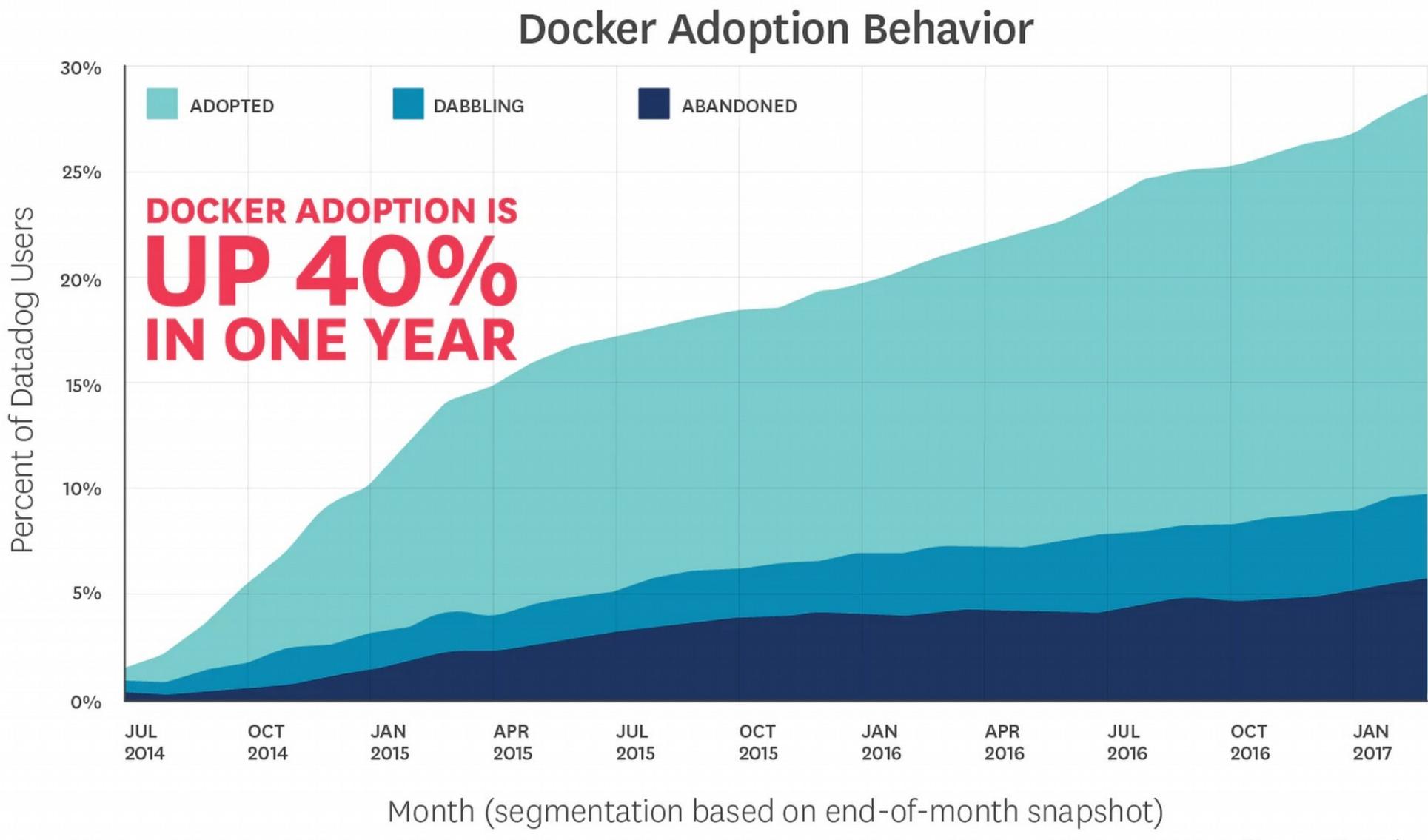
Exercise: Introduction to VIM

www.openvim.com

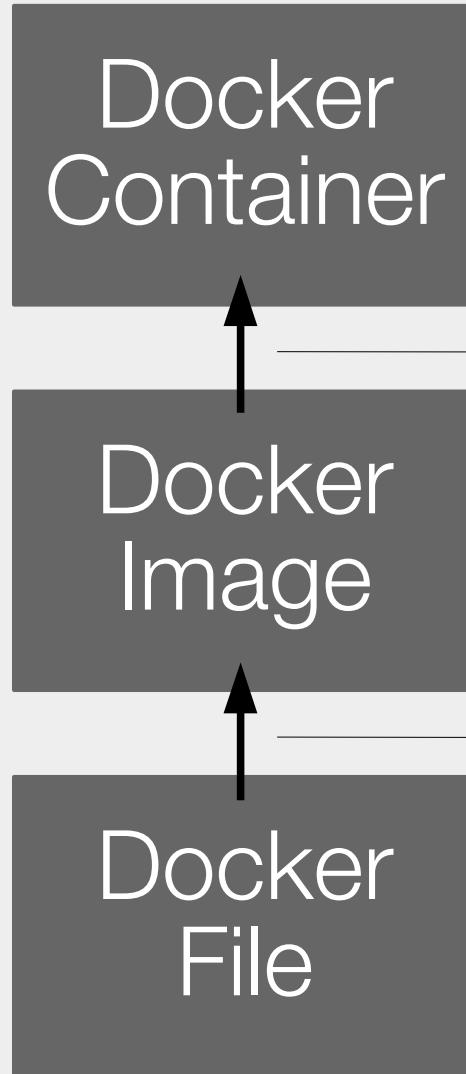
What is Docker?



Why Docker?



How do we use Docker?



Running machine

`docker up`

Compiled form

`docker build`

Code form

Exercise: Installing Docker

Hello World!

Exercise: Getting started

Create some containers

Summary

Linux is essential to working with Meerkat

There is a huge amount of freely available support
e.g. <http://guide.bash.academy/>

Docker separates software from infrastructure

Docker is essential to administering Meerkat

There is a huge amount of freely available support
e.g. <https://docs.docker.com/>