# Docker

## Agenda

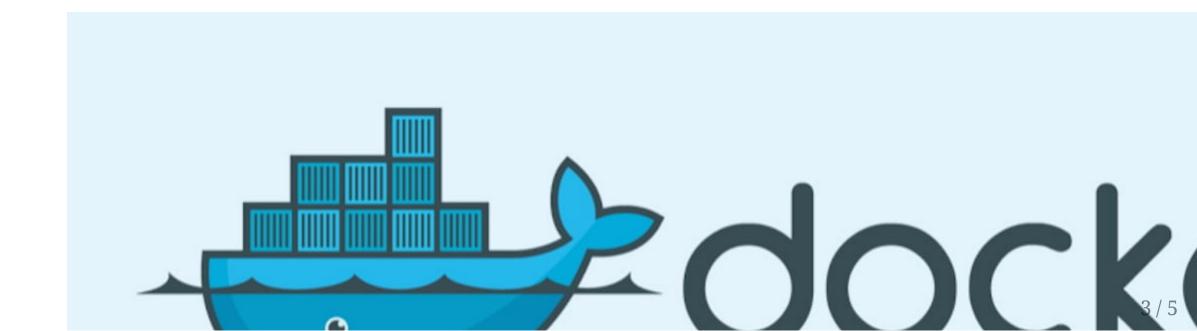
- 1. Introduction Josh Phillips
- 2. Docker Files Spencer Williams
- 3. Docker Build Hera Yang
- 4. Docker Container Mireya Vera Loo
- 5. Docker Hub Ben Hinchman
- 6. Docker Application Caden Franc

## Introduction

#### 1.1 What is Docker?

• An open-source software platform that debuted in 2013 with the purpose of creating, deploying, and managing virtual application containers on "common" operating system.

Behold, The Whale.



### **Docker Files**

#### 2.1 What is a docker file?

- A text file with instructions for creating your docker image, which is a file with executable code. It is similar to a makefile for other programming languages and their compliers but is used for the file to work with docker.
- This in turn provides a form of automation for creating the docker image when creating for the first time and afterwards.
- A Dockerfile is a text document that contains all the commands a user could call on the command line to assemble an image.

#### 2.2 Creating a docker file

- Via VS code extension, ... F1 while using the docker extension and selecting the type of file we want and its entry point (the main file it will execute)
- Via command line, touch DockerFile and vim Dockerfile to then edit it
- docker list to view created docker files

### 2.3 Editing the docker file

### Docker Container

### Docker Hub

## **Docker Application**

Creating an accessible and secure workflow