Installation

1. Install docker (engine and compose or toolbox):
   https://docs.docker.com/compose/install/
2. Download files from github: https://github.com/myersjo/ethics-canvas-docker
3. Run docker compose from the file containing the 'docker-compose.yml' file
   ('docker-compose up' on linux)
4. Go to 'localhost:8080' in a web browser

- The files for the website are in the 'code/' directory.
- There is no database set up for user accounts or saving canvases.
- There is an /icon folder missing, so the site does look a bit off.

Getting the IP Address of a Container

1. List running containers.

```
docker -compose ps
```

```
myersjo@EthicsCanvas:/home/www/ethics-canvas-docker$ sudo docker-compose ps
        Name                    Command              State           Ports
--------------------------------------------------------------------------------
ethicscanvasdocker_db_1    docker-entrypoint.sh mysqld     Up      3306/tcp
ethicscanvasdocker_php_1   /bin/sh -c /usr/sbin/php5- ...  Up      9000/tcp
ethicscanvasdocker_web_1   nginx -g daemon off;            Up      443/tcp, 0.0.0.0:80->80/tcp
```

2. Print only the IPAddress of the specified container. `docker inspect` without grep returns the full configuration file for the container.

```
docker inspect {container name} | grep IPAddress
```

```
myersjo@EthicsCanvas:/home/www/ethics-canvas-docker$ sudo docker inspect ethicscanvasdocker_db_1 | grep IPAddress
        "SecondaryIPAddresses": null,
        "IPAddress": "",
                "IPAddress": "172.19.0.4",
```

Connecting to MySQL

1. Connect to the server at {IPAddress} (-h) as root user (-uroot) and ask for password (-p).

```
mysql -uroot -h {IPAddress} -p
```

```
myersjo@EthicsCanvas:/home/www/ethics-canvas-docker$ mysql -uroot -h 172.19.0.4 -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 27
Server version: 5.7.17 MySQL Community Server (GPL)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>
```

MySQL Commands

SQL Cmd	Description
SHOW DATABASES;	Shows all databases on the server.
SHOW TABLES;	Shows all tables in the databses.
USE {dbName};	Switches to the database {dbName}.
DESCRIBE {tableName};	Shows the details for the columns in the table {tableName}.