

Installation Instructions

Step 0: Note that IGLSynth API has changed since last class!!!

Visit <https://www.iglsynth.akulkarni.me/en/v0.2/> for latest documentation.

Step 1: Get the Docker Image

Assuming you have installed Docker.

```
$ docker pull abhibp1993/iglsynth:dev
```

Step 2: Get the HW code

Download `HW-Code.zip` from Canvas and unzip it at some location. You should see the following code structure:

```
iglsynth                                <----- (base)
- FMR_HW
  - gw_graph.py
  - prod_ts_aut.py
  - ...

- iglsynth
  - game
  - logic
  - solver
  - util

- ...
```

Step 3: Configure PyCharm

1. In PyCharm (**Professional**), select the base folder `iglsynth` as project.
 - You must have PyCharm Professional to use Docker.
 - To get it, register for student license.
 - Download PyCharm Professional.
 - Enter your login credentials.
2. Create Docker Server
 - Go to `File -> Settings -> Build, Execution and Deployment -> Docker`

- Click on `+` symbol
- Enter name as `IGLSynth`.
- In `Connect to Docker Daemon with`, select TCP socket with default engine API URL.
- It should show `connection successful` below path mappings box.

3. Configure Project Interpreter.

- Go to `File -> Settings -> Project: iglsynth -> Project Interpreter`
- Click on the gear symbol, and select `Docker`.
- Select `IGLSynth` as Server.
- Enter image name as `abhibp1993/iglsynth:dev`
- Enter Python Interpreter Path as `python3`

That's it.

Running the code

There are three ways to run the code.

1. **[Easiest]** If using PyCharm, just `Run` the file. PyCharm will take care of configurations for you.

2. **[Moderate]** In PyCharm,

- Go to `View -> Tool windows -> Docker` (on Windows) or `View -> Tool windows -> Services` (on Ubuntu). I don't know about Mac!
- Select and Run `IGLSynth`
- Find `abhibp1993/iglsynth:dev` in the list of images. Run it.
- The above step will create a container. Run it.
- Copy name of container.
- Go to `View -> Tool windows -> Terminal`

```
PC$ docker exec -it <container_name> /bin/bash
Docker$ cd home/iglsynth
Docker$ python3 -m pytest FMR_HW/<file_name>.py
```

3. If running everything from terminal, then

```
PC$ docker run -it -v <PATH/TO/UNZIPPED/FOLDER>:/home/iglsynth
abhibp1993/iglsynth:dev
Docker$ cd /home/iglsynth/
Docker$ python3 -m pytest <file_name>.py
```

Check if all tests are pass or not. Ignore any warnings.