



The dts code Workflow

A Duckietown Development Cheatsheet

What is dts code?

The dts code interface is a development workflow that allows you to edit, test, and run all Duckietown LX exercises. You can find some in this repository to get started

```
github.com/duckietown/duckietown-lx
```

Edit - work on notebooks with VSCode

Make sure your exercise is updated

```
git pull upstream mooc2022
```

Generate your code editor URL using

```
dts code editor
```

Work - simulate or run your progress

To test your work in simulation, you can start the workbench by running

```
dts code workbench --sim
```

This will output a VNC URL to launch the exercise experience.

To run your solution on real world hardware, specify a Duckiebot using

```
dts code workbench -b <robot_name>
```

This will launch the agent and your Duckiebot should begin to move!

Setup

Update your shell by running

```
pip3 install -U duckietown-shell
```

Update your dts commands using

```
dts update
```

Setup your local SSL certificate using

```
dts setup mkcert
```

Build - build the exercise into an image

After editing, you need to build your updated exercise before using other commands. Do this by running

```
dts code build
```

Evaluate - check your solution locally

Evaluate your work locally before submitting your solution by running

```
dts code evaluate
```

This will produce the same statistics as your final submission to the server.

Submit

Submit your work to the challenges server by running

```
dts code submit
```

Follow the URL to monitor your results.