The Duckietown Book

2

TABLE OF CONTENTS

The Duckietown project

CHAPTER 1

What is Duckietown?

TODO: Write the mission statement

1.1. Watch some videos
TODO:

1.2. Read papers about Duckietown
TODO:

1.3. Beginnings of Duckietown
TODO:

Duckietown around the world

TODO:

2.1. Coming up in 2017
TODO:

CHAPTER 3
First steps

3.1. How to get started

If you are an instructor, please jump to Chapter 4.

If you are a self-guided learner, please jump to Chapter 5.

If you are a company, and interested in working with Duckietown, please jump to Chapter 6.

3.2. How to keep in touch

TODO: add link to Facebook

TODO: add link to Mailing list

TODO: add link to Slack?

3.3. How to contribute

TODO: If you want to contribute to the software...

TODO: If you want to contribute to the hardware...

TODO: If you want to contribute to the documentation...

TODO: If you want to contribute to the dissemination...

Duckietown for instructors

CHAPTER 5
Duckietown for self-guided learners

TODO: to write

Introduction for companies

TODO: to write

Contributing to this documentation

7.1. Where the documentation is

All the documentation is in the repository duckietown/duckuments.

The documentation is written as a series of small files in Markdown format. The output is:

- a publication-quality PDF;
- HTML (single-page);
- HTML (multiple pages).

7.2. Editing links

The simplest way to contribute to the documentation is to click any of the "✎" icons next to the headers.

They link to the "edit" page in Github. There, one can make and commit the edits in only a few seconds.

7.3. Comments

In the multiple-page version, each page also includes a comment box powered by a service called Disqus. This provides a way for people to write comments with a very low barrier. (We would periodically remove the comments.)

7.4. Compiling the documentation

TODO: Write instructions - it's "make all" but the dependencies are complicated.

7.5. Deploying the documentation

TODO: Write instructions

Features of the documentation writing system

8.1. Embedded LaTeX

You can use $\LaTeX$ math, environment, and references. For example, take a look at

$$x^2 = \int_0^t f(\tau)\, d\tau$$

or refer to Proposition 1.

Proposition 1. (Proposition example) This is an example proposition.

TODO: other LaTeX features supported

8.2. Other interesting features

TODO: to write

CHAPTER 9

Frequently asked questions about Duckietown

TODO: to write

Modeling

TODO:

CHAPTER 10
Kinematics of Duckiebot

TODO: