

The Duckietown Book



The last version of this book and other documents are available at this URL: https://duckietown.github.io/duckuments/

TABLE OF CONTENTS

Part 1 - The Duckietown project	3
Chapter 1 - What is Duckietown?	4
Section 1.1 - Watch some videos	4
Section 1.2 - Read papers about Duckietown	4
Section 1.3 - Beginnings of Duckietown	4
Section 1.4 - Duckietown around the world	4
Section 1.5 - Coming up in 2017	
Chapter 2 - First steps	5
Section 2.1 - How to get started	
Section 2.2 - How to keep in touch	
Section 2.3 - How to contribute	5
Chapter 3 - Duckietown for instructors	6
Chapter 4 - Duckietown for self-guided learners	7
Chapter 5 - Introduction for companies	8
Chapter 6 - Contributing to this documentation	
Section 6.1 - Where the documentation is	9
Section 6.2 - Editing links	9
Section 6.3 - Comments	9
Section 6.4 - Compiling the documentation	9
Section 6.5 - Deploying the documentation	9
Chapter 7 - Features of the documentation writing system	10
Section 7.1 - Embedded LaTeX	10
Section 7.2 - Other interesting features	10
Chapter 8 - Frequently asked questions about Duckietown	11
Part 2 - Modeling	
Chapter 0 Vinematics of Duckishet	12

PART 1 The Duckietown project

CHAPTER 1 What is Duckietown?

TODO: Write the mission statement

1.1. Watch some videos TODO:	9
1.2. Read papers about Duckietown TODO:	•
1.3. Beginnings of Duckietown TODO:	
1.4. Duckietown around the world TODO:	•
1.5. Coming up in 2017 TODO:	•

CHAPTER 2

First steps

2.1. How to get started

If you are an instructor, please jump to Chapter 3.

If you are a self-guided learner, please jump to Chapter 4.

If you are a company, and interested in working with Duckietown, please jump to Chapter 5.

2.2. How to keep in touch

TODO: add link to Facebook

TODO: add link to Mailing list

TODO: add link to Slack?

2.3. 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...

CHAPTER 3 Duckietown for instructors

Chapter 4 Duckietown for self-guided learners

CHAPTER 5 Introduction for companies

CHAPTER 6

Contributing to this documentation

6.1. 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:

0

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

6.2. Editing links

The simplest way to contribute to the documentation is to click any of the "\sim " 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.

6.3. 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.)

6.4. Compiling the documentation

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

6.5. Deploying the documentation

TODO: Write instructions

CHAPTER 7

Features of the documentation writing system

7.1. Embedded LaTeX

You can use LATEX math, environment, and references. For example, take a look at

$$x^2 = \int_0^t f(au) \, \mathrm{d} au$$

or refer to Proposition 1.

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

TODO: other LaTeX features supported

7.2. Other interesting features

Chapter 8 Frequently asked questions about Duckietown

PART 2 Modeling

TODO:

CHAPTER 9 Kinematics of Duckiebot

TODO: