

## The Duckietown Book



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# 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:	
<b>1.4. Duckietown around the world</b> 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:

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- 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: