# **Mindstorm Documentation**

Release 0.1

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- HTML: http://laszewsk.github.io/mindstorm
- https://github.com/laszewsk/mindstorm

PDF

epub

Sirius LXF

Sirius HTML

Python.

HTML Instructions

Contents:

 $mail\ suggestions\ for\ improvements\ to\ laszewski@gmail.com$ 

CONTENTS 1

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# ONE

# **SOFTWARE**

• http://www.lego.com/en-us/mindstorms/downloads/download-software

### **TWO**

### **FLL COACH RESOURCES**

- http://www.firstlegoleague.org/challenge/teamresources
- Introduction Video: https://www.youtube.com/watch?v=IFQMPVZvzQY
- Project Video: https://www.youtube.com/watch?v=HhSXJ7bvSYQ&feature=youtu.be
- Robot Challenge: https://www.youtube.com/watch?v=akuN95EyXJk&feature=youtu.be
- Forklift Attachment (1): https://www.youtube.com/watch?v=7hVOOGAGsKY
- Forklift Attachment (2): https://www.youtube.com/watch?v=5XwFTzPuSJs

### **THREE**

# **BUILDERDUDE35 CHANNEL**

Channel: https://www.youtube.com/channel/UCuXq-jiU0ANeBcF\_Tvq1D7g

- Sirius: https://www.youtube.com/watch?v=pDxAszX-YUo
- Doggear: https://www.youtube.com/watch?v=NZbt3tnySyI
- Wormgear: https://www.youtube.com/watch?v=TQ9hQ\_ZXwmM

### **FOUR**

#### **MINDSTORM**

#### Some information about mindstrom

#### Different between Education and store set:

- http://www.generationrobots.com/blog/en/2015/02/differences-lego-mindstorms-education-ev3-kit-ev3-home-edition/
- http://robotsquare.com/2013/11/25/difference-between-ev3-home-edition-and-education-ev3/

#### Education set:

- Rechargeable battery pack and charger (normally \$60 and \$25)
- Gyroscope (\$30)
- Ultrasonic distance sensor (\$30)

#### Does not have

- Infrared Sensor (\$30)
- Infrared Remote (\$30)
- Software

Software may be additional \$99? Can store set program the Gyro sensor?

#### Link for education set:

- $\bullet \ https://shop.education.lego.com/legoed/en-US/catalog/product.jsp?productId=5003400$
- https://shop.education.lego.com/legoed/en-US/search/navSearchResults.jsp?parentCategories=EDU\_PRD\_LINE\_107&gradeLev

#### Link for store set:

• http://shop.lego.com/en-US/LEGO-MINDSTORMS-EV3-31313?p=31313

#### EV3 search from lego site:

• http://search-en.lego.com/?q=ev3

#### NXT search from lego site:

• http://search-en.lego.com/?cc=US&lang=2057&q=nxt

# CHAPTER FIVE

# **FLL**

• http://www.usfirst.org/roboticsprograms/fll

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### SIX

### **INSTRUCTIONS**

• BI 3006/48 - 31313 - Download size: 11.55 Mb

#### **Extra Building Instructions**

- http://www.lego.com/en-us/mindstorms/build-a-robot (see bellow, 5 instructions)
- http://www.lego.com/en-us/mindstorms/build-a-robot/rac3-truck (see bellow 12 instructions)
- EV3RSTORM Download size: 51.81 Mb
- GRIPP3R Download size: 51.35 Mb
- R3PTAR Download size: 38.96 Mb
- TRACK3R Download size: 29.49 Mb
- SPIK3R Download size: 38.5 Mb
- BANNER PRINT3R Download size: 15.03 Mb
- BOBB3E Download size: 13.19 Mb
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