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# **Mindstorm Documentation**

***Release 0.1***

**Gregor von Laszewski**

August 28, 2015



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

PDF

epub

Sirius LXF

Sirius HTML

[Python](#).

HTML Instructions HTML Instructions HTML Instructions

Contents:

mail suggestions for improvements to [laszewski@gmail.com](mailto:laszewski@gmail.com)



## SOFTWARE

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





## 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>



## BUILDERDUDE35 CHANNEL

Channel: [https://www.youtube.com/channel/UCuXq-jiU0ANeBcF\\_Tvq1D7g](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](https://www.youtube.com/watch?v=TQ9hQ_ZXwmM)



## 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:

- <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&gradeLevel=EDU\\_GRADE\\_107](https://shop.education.lego.com/legoed/en-US/search/navSearchResults.jsp?parentCategories=EDU_PRD_LINE_107&gradeLevel=EDU_GRADE_107)

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>



**FLL**

- <http://www.usfirst.org/roboticsprograms/fll>





## 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
- DINOREX - Download size: 31.21 Mb
- EL3CTRIC GUITAR - Download size: 12.71 Mb
- EV3 GAME - Download size: 8.78 Mb
- EV3D4 - Download size: 17.09 Mb
- EV3MEG - Download size: 12.17 Mb
- KRAZ3 - Download size: 19.75 Mb
- MR B3AM - Download size: 14.76 Mb
- RAC3 TRUCK - Download size: 14.99 Mb
- ROBODOZ3R - Download size: 16.01 Mb
- WACK3M - Download size: 18.17 Mb