What is NXT?	How does it work?	What can it do?	The Future?	Questions?

The Wonderful World Of NXT

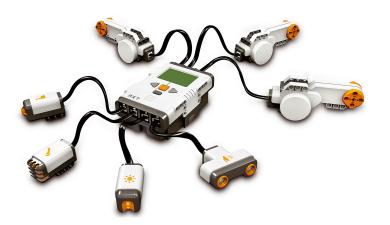
Sean Handley

March 25, 2007 SUCS Lightning Talks

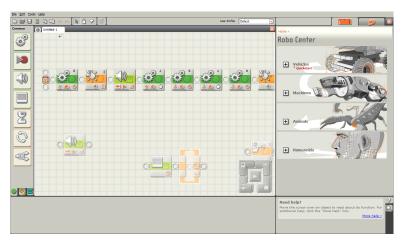
▲ロト▲聞と▲臣と▲臣と「臣」 釣べ⊙

- Lego's next generation robotics kits in the Mindstorms series
- Based around the NXT brick computer
- 32-bit ARM7 microcontroller, 64KB main memory, 256KB secondary storage
- Bluetooth enabled
- Firmware has been open sourced by Lego

What is NXT?	How does it work?	What can it do?	The Future?	Questions?
1/0?				



Programming?



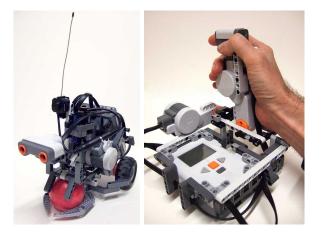
What is NXT?	How does it work?	What can it do?	The Future?	Questions?
Ports?				

Here are just a few of the languages for which an NXT port exists:

- Java
- NQC (Not Quite C)
- ► C#
- Lisp
- ASM
- Prolog
- Logo

Anything your devious mind can come up with!

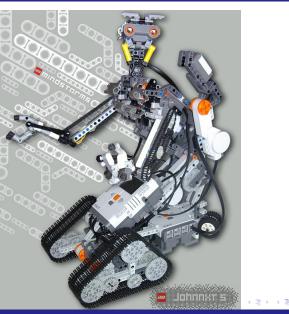






Questions?

2





- Racing car controlled via Bluetooth-enabled mobile phone or Nintendo Wiimote
- Stair-climber
- Self-balancing robot
- Maze solver
- Radar
- Dancer
- Cuckoo clock

What is NXT?	How does it work?	What can it do?	The Future?	Questions?
The Futur	re?			

- Since Lego open-sourced the NXT firmware, an official NXT SDK has been released
- This has resulted in a vibrant community of developers and enthusiasts
- The release of a Bluetooth SDK for NXT has paved the way for integration with other devices
- There are several communities of NXT enthusiasts, the most notable being NXTasy.org
- Users publish instructions for their own custom robot designs
- Custom program blocks (i.e. floating point arithmetic etc) are released regularly and often
- Third party manufacturers have released their own sensors i.e. cameras, gyros, infra-red

What is NXT?	How does it work?	What can it do?	The Future?	Questions?

Questions?

▲日 > ▲圖 > ▲ 国 > ▲ 国 > -