- Why?
 - Some parts can only work in "Upload" mode
 - In "Upload" mode, the Arduino cannot talk to the computer (eg. to control games)
 - Affected parts:
 - Ultrasonic distance sensor
 - LCD display



Slides available at: http://a9i.sg/huayi

Slide 1

- Solution
 - Use 2 Arduinos
 - First Arduino
 - "Live" mode: Can communicate with computer
 - Read analog signal from second Arduino
 - Second Arduino
 - "Upload" mode: Can read from ultrasonic sensor
 - Write analog signal to second Arduino



Slide 2

<u>Step 1</u>



First Arduino (Live)

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Second Arduino (Upload)

Slide 3

Step 2



First Arduino (Live)

Second Arduino (Upload)

Slide 4

A POSTERIORI Play · Experience · Learn

Step 3



First Arduino (Live)

Second Arduino (Upload)

Slide 5

A POSTERIORI Play · Experience · Learn

Step 4 (Last)



First Arduino (Live)

Second Arduino (Upload)

Slide 6

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Programming

- Connect the ultrasonic sensor to the "Upload" Arduino (see lesson 6)
- Upload the program on the right to the "Upload" Arduino
- This program will continuously write the distance to pin 9

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Programming



- Connect the "Live" Arduino to the computer and run the program on the left
- This program will read analog pin 0 and place its value in the variable "planeY"
- Try it out with the game in lesson 5



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Slide 8