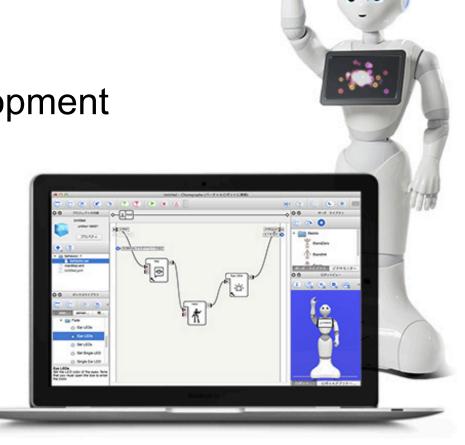
Nao Application Development

- Basic -



Goal of this workshop

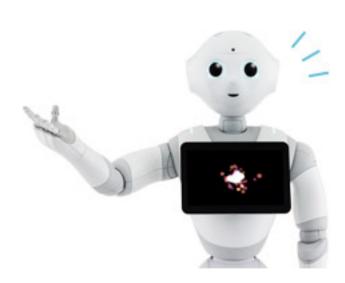
<u>Goal</u>

✓ Develop easy robot application with Choregraphe

Outline

- Pepper's hardware
- What is Choregraphe
- Basic robot application development
 - Say
 - Voice recognition and sensors

Pepper's hardware



Hardware Specification - Nao

Tactile sensors:

Menu to interact non-verbally with NAO

Speakers (x2):

NAO talks, prompts, shares his story, plays music...

Battery:

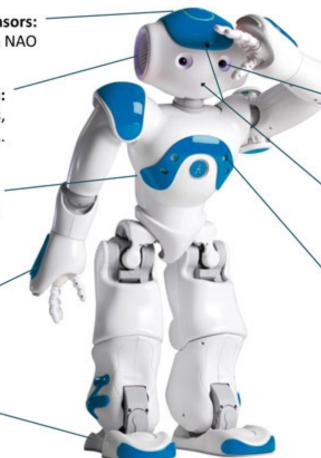
NAO is free to navigate without being connected to a power source.

Prehensile hands with sensors:

To grasp small items and to work on object exchange and turn-taking

Foot bumpers:

Another way to interact with NAO.



Microphones (x4):

NAO detects the origin of sounds and understands what you say.

Eyeleds:

NAO uses color code to express emotions and even play edutaining color games with your children!

Cameras (x2):

NAO recognizes pre-recorded faces, pictures, reads books, imitates.

Sonars (x4):

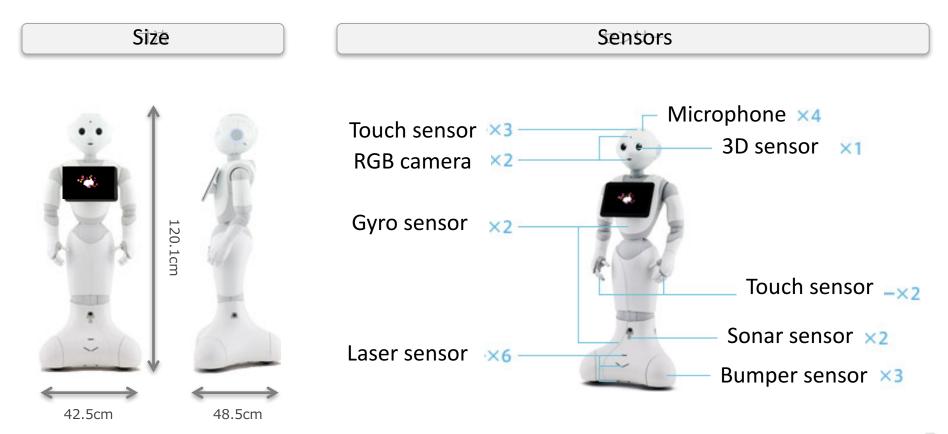
NAO detects whether something stands closely in front of him.

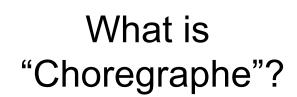
Wifi Connection:

NAO can use information from the web



Hardware Specification - Pepper

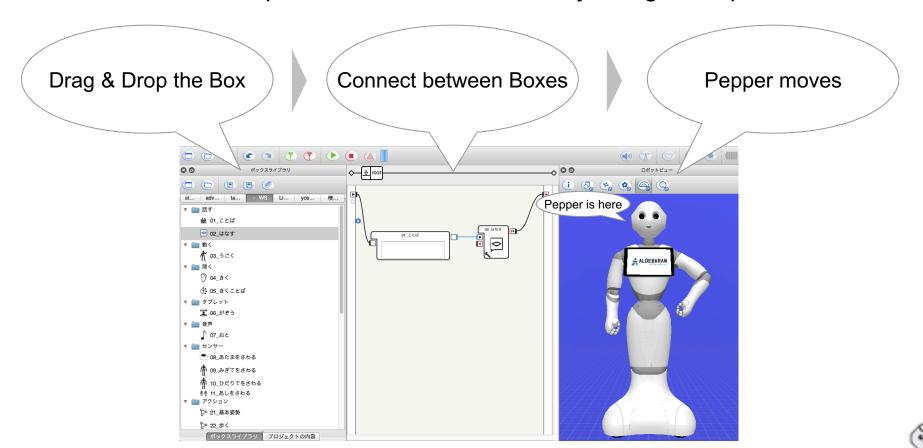




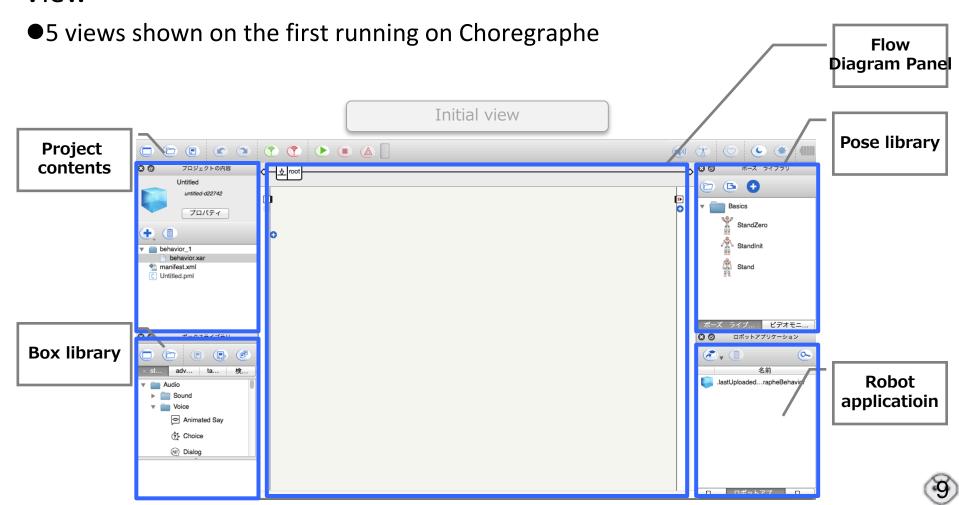


What is "Choregraphe"?

One of robot development tool that uses mainly "drag & drop"

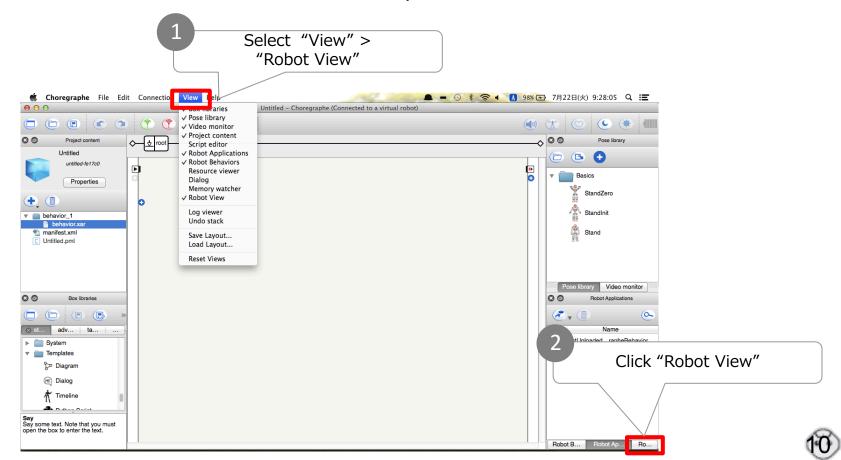


View

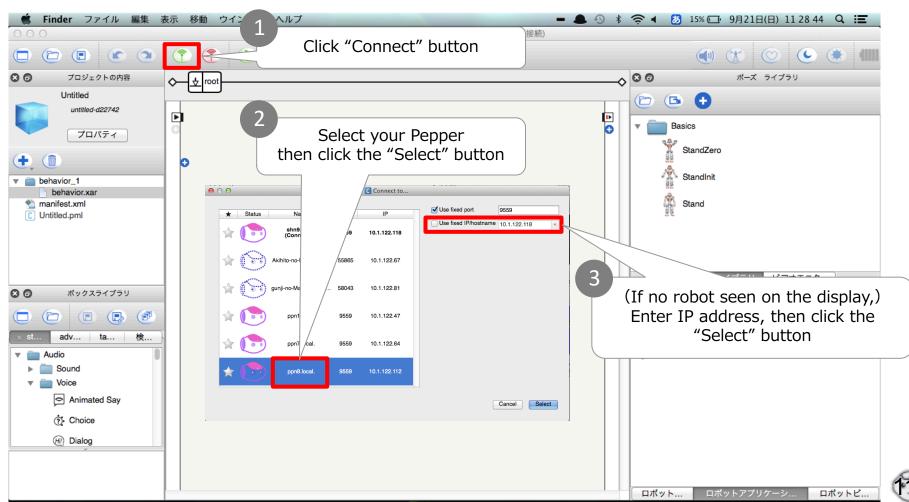


View modification

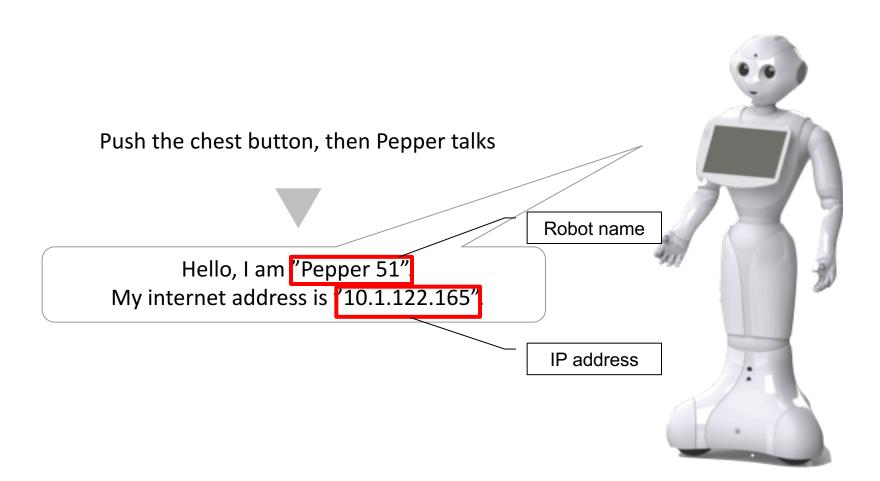
Display extra views needed for this workshop

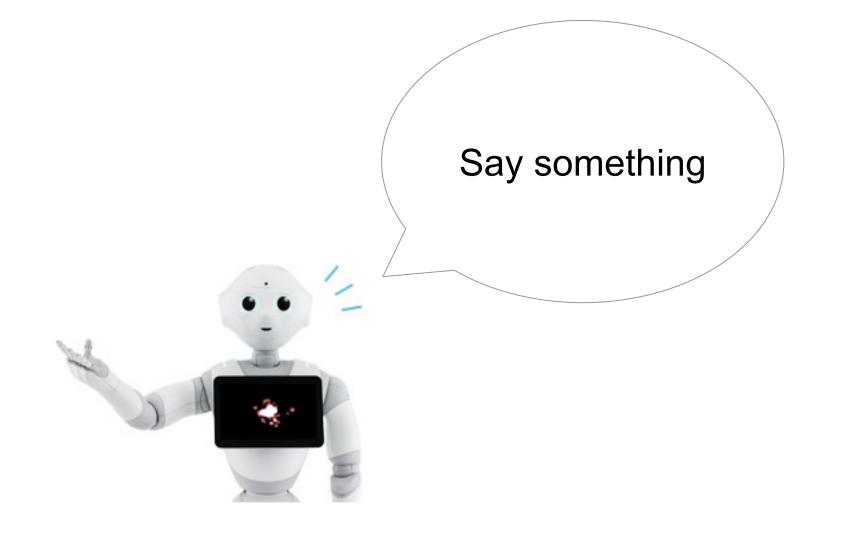


Connect to the robot

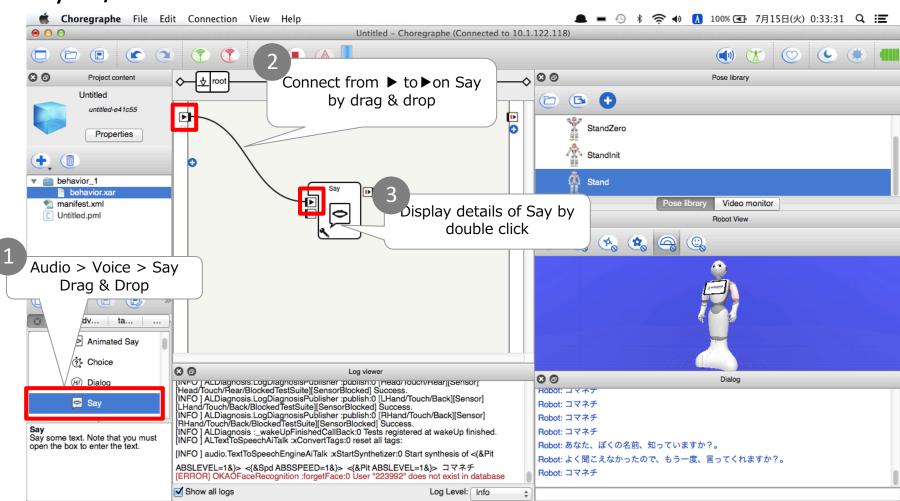


Confirmation of Robot name and IP address



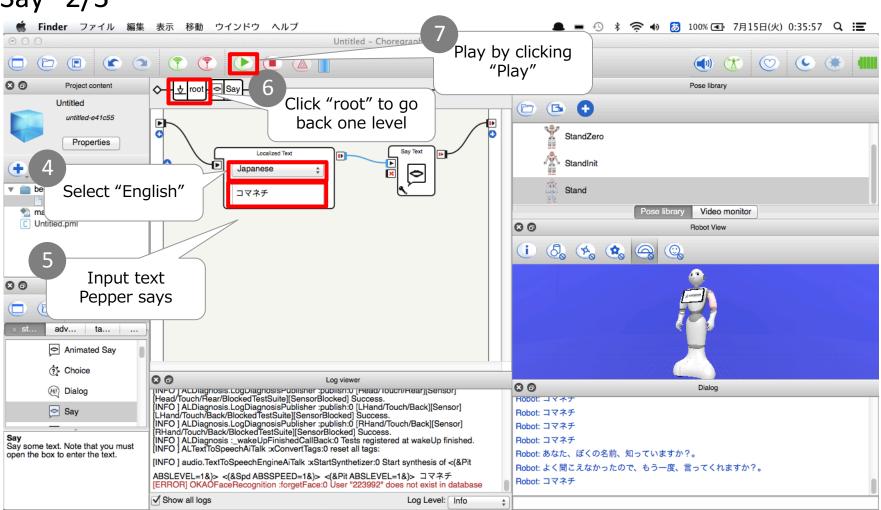


"Say" 1/3



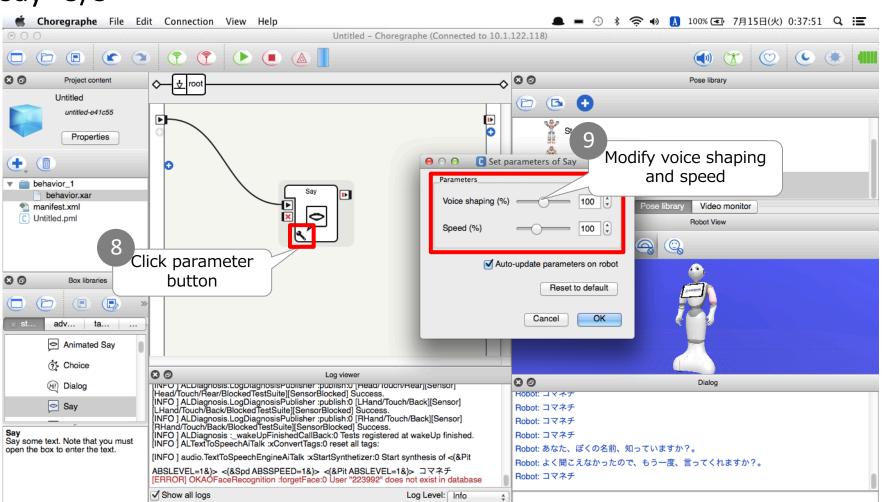
14

"Say" 2/3

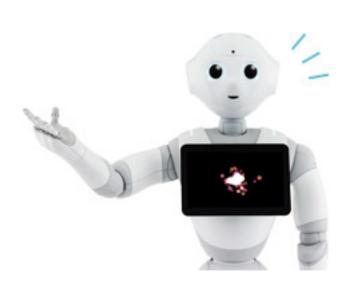


(5)

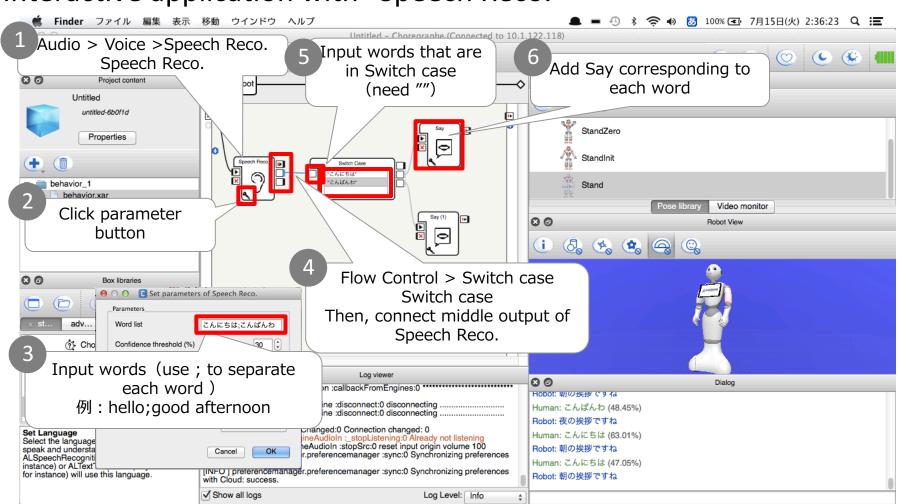
"Say" 3/3



Voice recognition and sensors



Interactive application with "Speech Reco."



Interactive application with touch sensors

