VERSION 1.0



Human-Robot Interaction

NAO Documentation / User Manual

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“Our mission is to create and showcase meaningful and exciting human-to-robot interaction using the Aldebaran NAO robots recently required by CWU.” – AriGato Robotics

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# SECTION 1: INTRODUCTION TO THE NAO ROBOT

## 1.1 WHAT IS NAO?

## 1.2 WHo made NAO?

## 1.3 definitions, acronyms, & abbreviations

## 1.4 references

# SECTION 2: NAO’s CAPABILITIES

## 2.1 initial (pre-built) capabilities

The original capabilities of the NAO are put on the robot by subscribing to the Aldebaran “Basic Channel.” Official documentation on this channel lists and describes its capabilities.[[1]](#footnote-1) Below is a list of some of the phrases NAO can respond to in the documentation, most of which are available in English, French, and Japanese Language settings.

* “How are you?”
* “Can you say goodbye?”
* “What can you do?”
* “Tell me all you can do.”
* “How do I install an application?”
* “How do I start an application?”
* “What did I say?”
* “Can you repeat please?”
* “What is your IP address?”
* “Are you connected to Internet?”
* “What languages so you speak?
* “Speak French.”
* “Can you speak French?”
* “Speak Japanese.”
* “Speak Chinese”
* “Can you speak Chinese”
* “Speak softer”
* “Speak louder”
* “Can you stand up?”
* “Can you sit down?”
* “Crouch.”
* “Lay down”
* “Lay down on your back”
* “Lay down on your belly.”
* “Stop Looking at me”
* “What is your name?”
* “Introduce yourself”
* “How tall are you?”
* “How much do you weigh?”

## 2.2 verbal responses (q&a)

## 2.3 internet-based requests & responses

## 2.4 facial detection & recognition responses

## 2.5 basic movement options

## 2.6 advanced movement options

# SECTION 3: CREATING YOUR OWN NAO MODULES

## 3.1 basics of choregraphe

## 3.2 using the naoqi framework

## 3.3 creating your first module

## 3.4 integrating your module onto nao

# SECTION 4: HELP

## 4.1 general faqs

## 4.2 troubleshooting

1. http://doc.aldebaran.com/2-1/nao/basic\_channel\_conversation.html [↑](#footnote-ref-1)