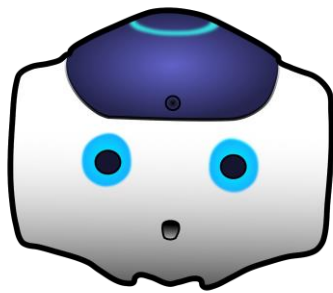


VERSION 1.0



Arigato

# NAO Documentation / User Manual

Human-Robot Interaction

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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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## CONTENTS

### Section 1: Introduction to the NAO Robot

1.1 What is NAO?.....	X
1.2 Who made NAO?.....	X
1.3 Definitions, Acronyms, & Abbreviations.....	X
1.4 References.....	X

### Section 2: NAO’s Capabilities

2.1 Initial (Pre-Built) Capabilities.....	X
2.2 Verbal Responses (Q&A).....	X
2.3 Internet-Based Requests & Responses.....	X
2.4 Facial Detection & Recognition Responses.....	X
2.5 Basic Movement Options.....	X
2.6 Advanced Movement Options.....	X

### Section 3: Creating Your Own NAO Modules

3.1 Basics of Choregraphe.....	X
3.2 Using the NAOqi Framework.....	X
3.3 Creating Your First Module.....	X
3.4 Integrating Your Module onto NAO.....	X

### Section 4: Help

4.1 General FAQs.....	X
4.2 Troubleshooting.....	X

## 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.<sup>1</sup> 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"

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<sup>1</sup> [http://doc.aldebaran.com/2-1/nao/basic\\_channel\\_conversation.html](http://doc.aldebaran.com/2-1/nao/basic_channel_conversation.html)

- “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