

92586 Computational Linguistics

2. Python 4 Poets

Alberto Barrón-Cedeño

Alma Mater Studiorum-Università di Bologna

a.barron@unibo.it

@albarron_

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Programming

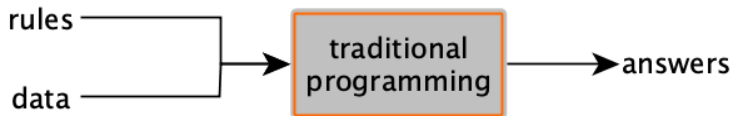


Diagram borrowed from L. Moroney's Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning

Conditionals

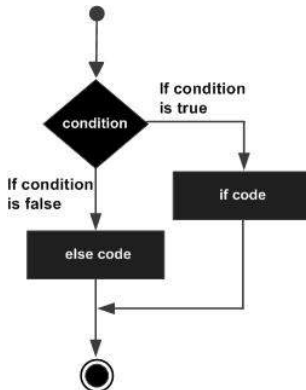


Diagram borrowed from <https://www.tutorialspoint.com>

Loops

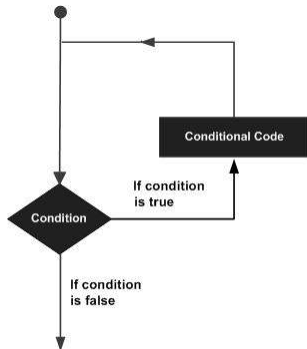


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Functions (methods)

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def name_of_the_function(input1, input2):  
    function code
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A simple method to *salute* people

```
greeting_inputs = ("hey", "morning", "evening", "hi",  
                  "whatsup", "hello")  
greeting_responses = ["hey", "hey hows you?", "*nods*",  
                      "hello, how you doing", "hello",  
                      "Welcome, I am good and you"]  
  
def generate_greeting_response(input):  
    for token in input.split():  
        if token.lower() in greeting_inputs:  
            return random.choice(greeting_responses)
```

Derived from

<https://stackabuse.com/python-for-nlp-creating-a-rule-based-chatbot/>

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- greeting_inputs is a **set**
- greeting_responses is a **list**

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generate_greeting_response("hi")
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```
def generate_greeting_response(input):  
    for token in input.split():  
        if token.lower() in greeting_inputs:  
            return random.choice(greeting_responses)
```

```
generate_greeting_response("hi")
```

```
generate_greeting_response("ciao")
```

From Unix to Python

- Kenneth W. Church's **Unix for poets**

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Python for Poets

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Python for Poets

`shorturl.at/iFMZ0`

