

# AI Playground

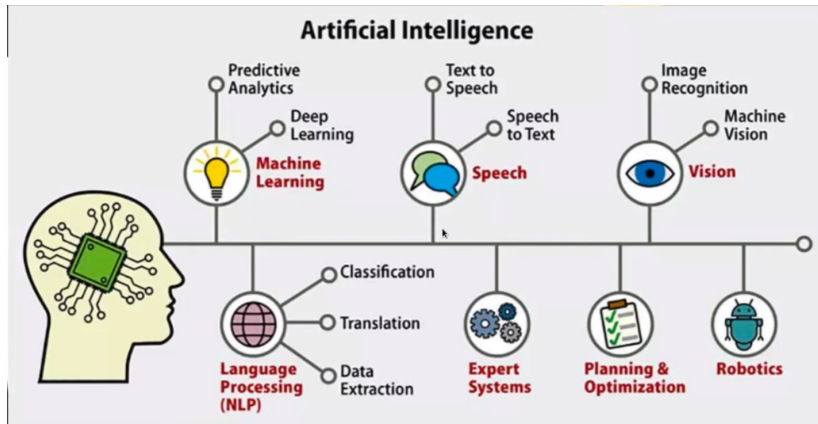
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# What's AI?

- Artificial Intelligence- The ability of machine to think and behave like humans.
- How does the machine learn on its own? - That is called Machine Learning. ML is the study of computer algorithms that improve automatically with experience.
- Just like humans learn with experience - Machines also learn with experience!
- Examples of common AI? Alexa, Siri, Google Home, Self Driving Cars, Robots etc.

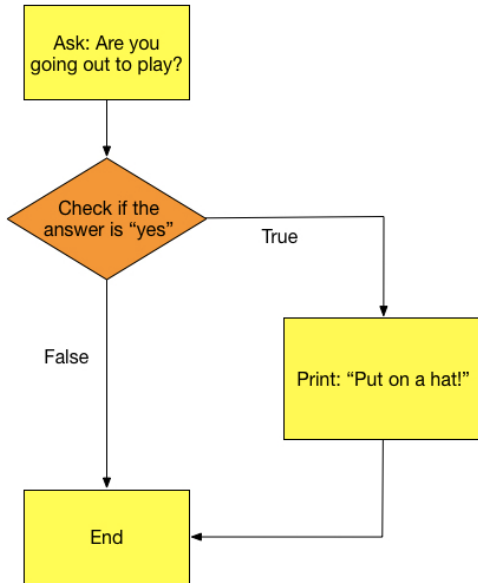
# What's out there?



# How do computers make decisions?

- Conditional statements are used to perform different actions based on different conditions.
- In many programming languages, decisions (also called conditionals) take the form of an if-then construct. They start with a condition, which is then evaluated as either True or False.

# How do computers make decisions?



# Let's Build that

```
Bot.send("Are you going out to play?")
async function respond(inputText){
  if (inputText == "yes"){
    Bot.send("Wear a hat");
  }
  else {
    Bot.send("ok");
  }
}
```

What we learned. - Bot.send() method - if else statements.

# Build a basic greetings bot

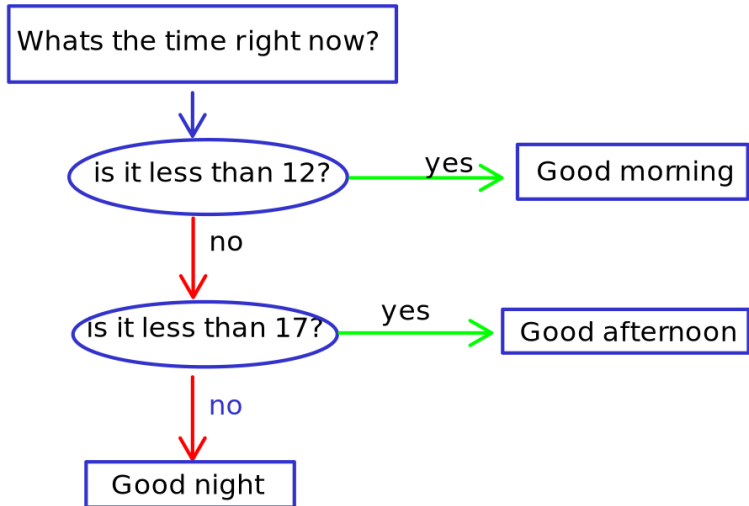


Figure 2: Flow chart

# Build a basic greetings bot

```
Bot.send("Whats the time right now?");  
async function respond(inputText){  
  if (inputText<12){  
    Bot.send("Good morning!");  
  }  
  else if(inputText<17){  
    Bot.send("Good afternoon!");  
  }  
  else{  
    Bot.send("Good Night!");  
  }  
}
```



# Benefits of AI Playground

- Streamlines a lot of back end operations, so that the you can just learn what AI is — and can get immediate results!
- User friendly!
- Designed to suit students needs.
- Students can see and publish new projects and thus learn from each other.

## How does learning AI help?

- Logical reasoning and Sequencing
- Critical thinking
- Problem solving
- Mental Mathematics
  - The above skills are implicit skills that students learn along with AI. And this helps them in academics, life, etc.

The well known Pythagorean theorem  $x^2 + y^2 = z^2$  was proved to be invalid for other exponents. Meaning the next equation has no integer solutions:

$$x^n + y^n = z^n$$

Can AI, help find near misses for this equation?