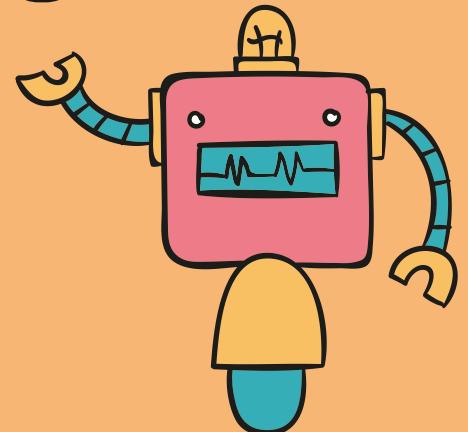
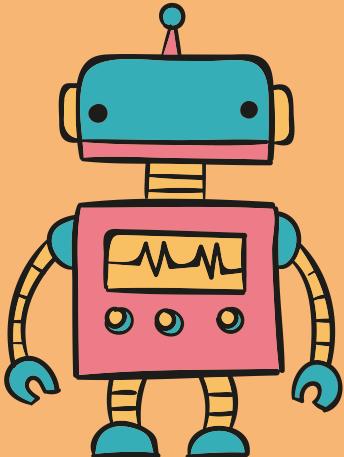
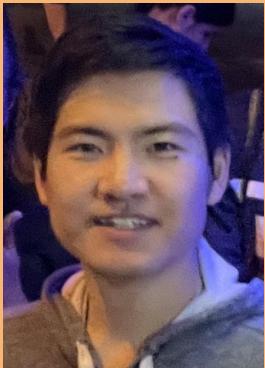


# Intro to Arduino

Learn to Make Cool Robots!



# Our Volunteers :3



**Ronghao Luo**

UBC 2nd year

Computer Engineering



**Ella Yan**

UBC 2nd year

Engineering Physics



**Steven Xu**

UBC 3rd year

Engineering Physics

# Table of Contents

1. What is Engineering?
2. Intro to Circuits
3. What is Arduino?
4. Coding Basics
5. Make an LED blink
6. What will we be making?
7. Questions?



# Pwease Install the Arduino IDE

Just google “Arduino IDE”

This is how you will upload code  
to your Arduino

Also comes with sample code!

The image shows two screenshots of the Arduino website. The top screenshot displays the main navigation bar with links for EDUCATION, STORE, HARDWARE, SOFTWARE, CLOUD, DOCUMENTATION, COMMUNITY, BLOG, and ABOUT. The SOFTWARE link is highlighted. Below this, a section titled "Arduino Web Editor" is shown, featuring a button to "CODE ONLINE" and a "GETTING STARTED" link. To the right is a screenshot of the Arduino Web Editor interface, showing a sidebar with "EDITOR", "Sketchbook", "Examples", "Libraries", and "Serial Monitor". The main area shows a list of sketches: "Test (2)", "Blink", "BlinkWithoutDelay", "YankkaSamples (M)", "sketch\_feb19", "sketch\_feb20", and "sketch\_feb21". The bottom screenshot shows a download page for "Arduino IDE 2.3.2". It features a logo of a blue infinity symbol, the text "Arduino IDE 2.3.2", and a description of the new features. Below this is a "SOURCE CODE" link and a note about the source code being open source and hosted on GitHub. To the right, a "DOWNLOAD OPTIONS" section provides links for Windows (AppImage, MSI installer, ZIP file), Linux (AppImage, ZIP file), and macOS (Intel, Apple Silicon) along with release notes.

arduino.cc/en/software

EDUCATION STORE

HARDWARE SOFTWARE CLOUD DOCUMENTATION COMMUNITY BLOG ABOUT

Arduino Web Editor

Start coding online and save your sketches in the cloud. The most up-to-date version of the IDE includes all libraries and also supports new Arduino boards.

CODE ONLINE GETTING STARTED

EDITOR Sketchbook Examples Libraries Serial Monitor

Test (2) Blink BlinkWithoutDelay YankkaSamples (M) sketch\_feb19 sketch\_feb20 sketch\_feb21

Downloads

Arduino IDE 2.3.2

The new major release of the Arduino IDE is faster and even more powerful! In addition to a more modern editor and a more responsive interface it features autocompletion, code navigation, and even a live debugger.

For more details, please refer to the [Arduino IDE 2.0 documentation](#).

Nightly builds with the latest bugfixes are available through the section below.

SOURCE CODE

The Arduino IDE 2.0 is open source and its source code is hosted on [GitHub](#).

DOWNLOAD OPTIONS

**Windows** Win 10 and newer, 64 bits  
**Windows** MSI installer  
**Windows** ZIP file

**Linux** AppImage 64 bits (X86-64)  
**Linux** ZIP file 64 bits (X86-64)

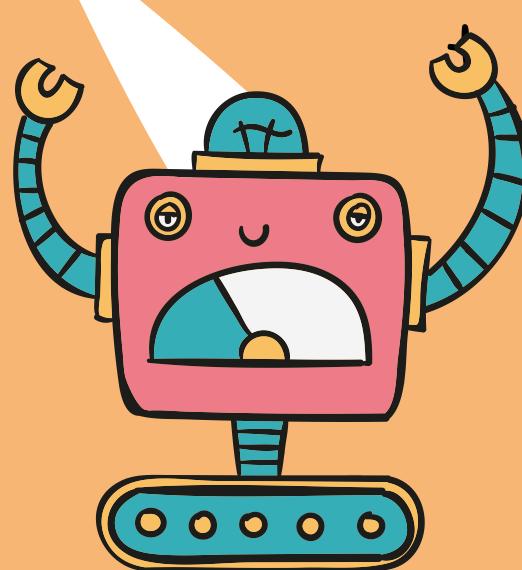
**macOS** Intel, 10.15: "Catalina" or newer, 64 bits  
**macOS** Apple Silicon, 11: "Big Sur" or newer, 64 bits

Release Notes

# 01.

## What is Engineering?

Any guesses?





Engineering is the application of science,  
mathematics, and creativity to design,  
develop, and build solutions that address  
real-world problems

—ChatGPT

# Some Specializations Include...

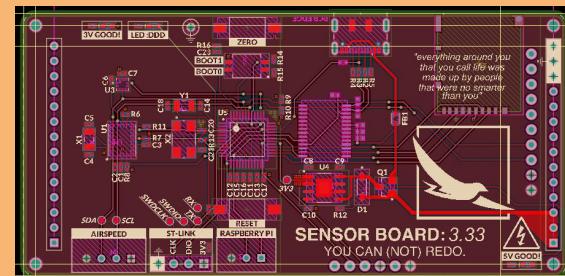
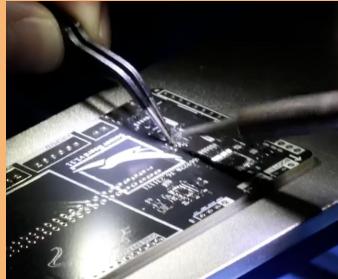
## Mechanical

- Design Machines, Structures
- Automotive, aerospace industries



## Electrical

- Design electrical systems
- Studies circuits, signals, power
- Design PCBs



## Computer

- Design computer hardware and low level code



These were all made by UBC students :)

# Specializations cont.

## Civil

- Design infrastructure, structures
- Manages construction projects
- Ex. bridges, buildings, roads



## Chemical

- Designs chemical processes
- Studies reactions/materials
- Bigger scale/product focused



## Manufacturing

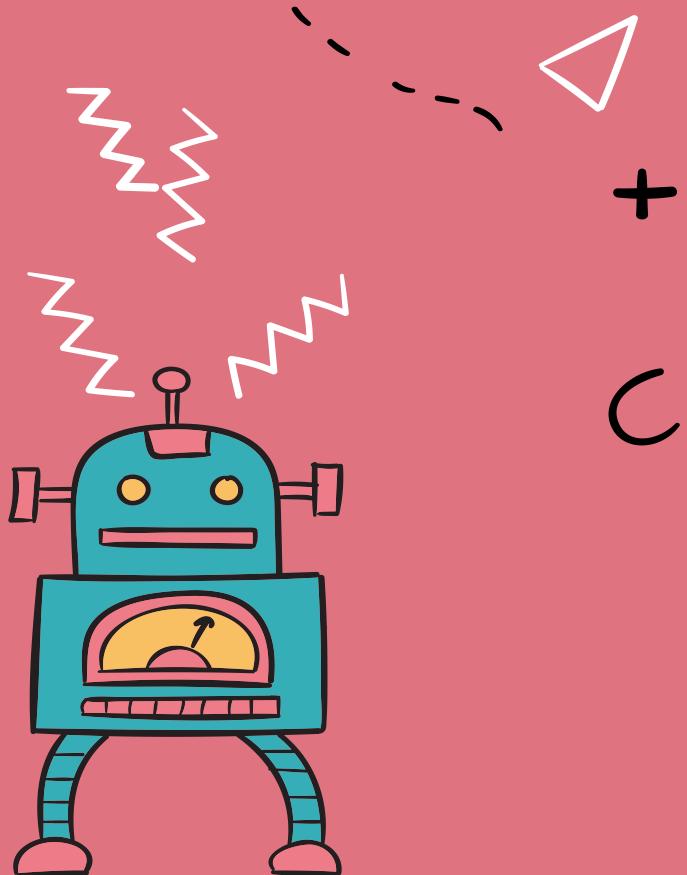
- Design/optimize production systems
- Design factory systems



# 02.

## Intro to Circuits

What is electricity?



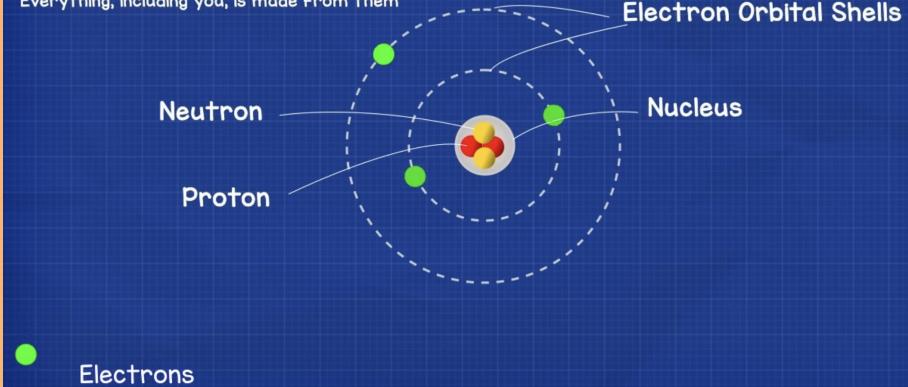
Electricity is the flow of tiny particles called electrons through a conductor, like a wire. It powers our lights, devices, and machines, allowing them to work.

Electricity needs a complete path to flow

# How Electricity Works

## The Atom

Everything, including you, is made from them



# How Electricity Works

## Circuits

The route electrons can flow along.



# Voltage, Current, Resistance

## Voltage

Voltage is like the pressure pushing electricity through a wire

Causes electricity to move

High voltage means higher pressure

Can have voltage without current

## Current

Current is the flow of electricity through a circuit

It's like the rate of water flowing through a pipe

High current means more electricity flowing

Flows from high voltage to lower voltage

Need voltage to have current

## Resistance

Resistance is like a clogged pipe for electricity

Slows down the flow of electricity in a circuit

High resistance means less current flows, low resistance means more current flows

# Electricity is like a water hose

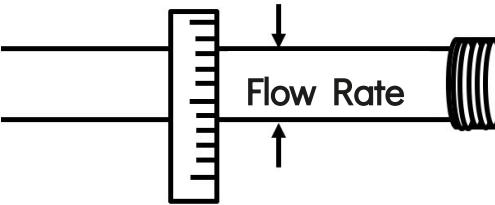
**Voltage**

Volts (V)



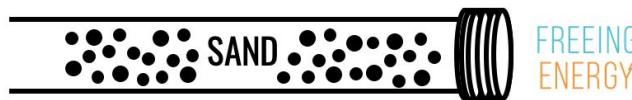
**Current**

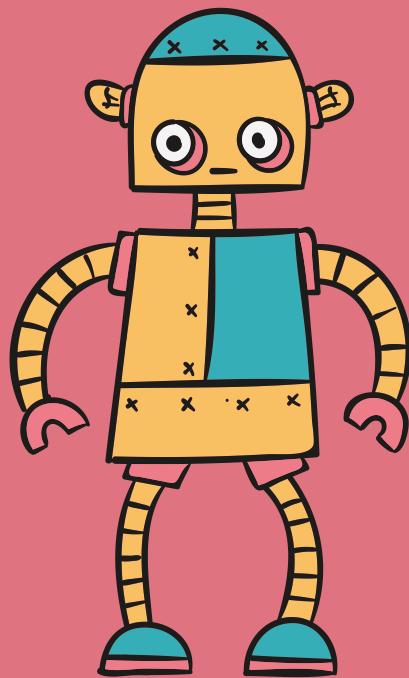
Amps (A or I)



**Resistance**

Ohms ( $R$  or  $\Omega$ )





# 03.

## What is Arduino?

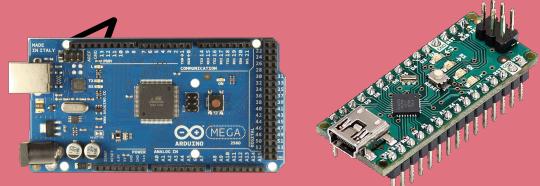
Haha good question



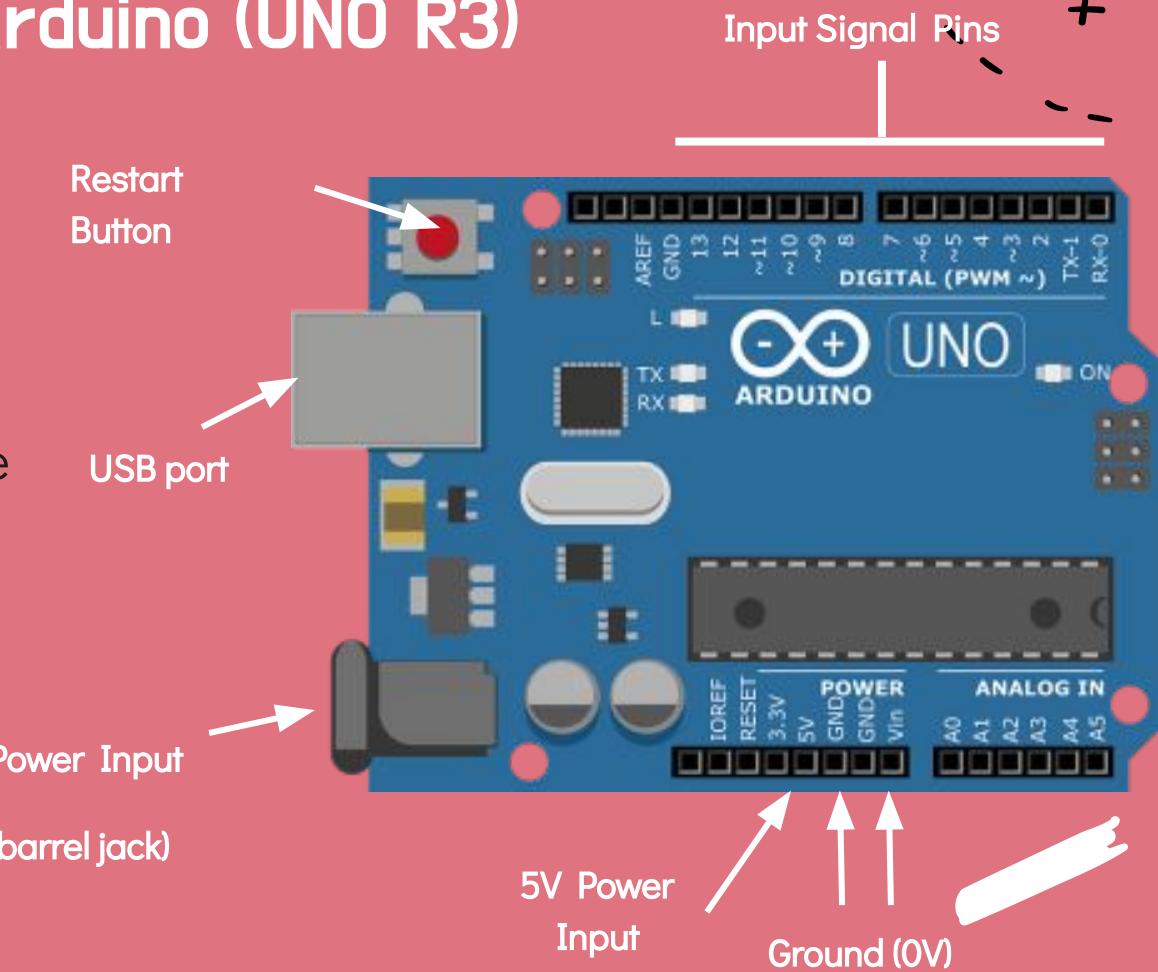
# This is an Arduino (UNO R3)

An Arduino is able to...

- Read inputs (electrical signals)
- Run and remember code
- Output electrical signals

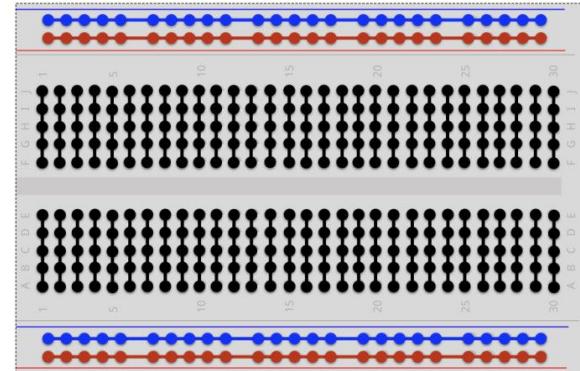


Other Arduinos

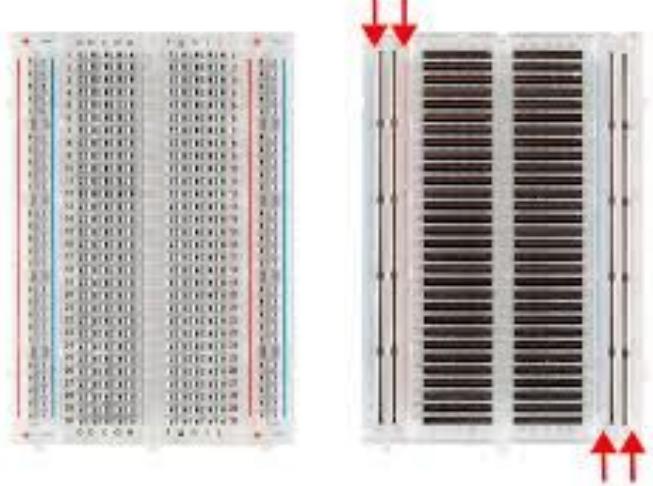


# Breadboards

- Breadboards are used for prototyping
- Allow you to connect and disconnect things easily
- Is connected internally with metal strips



fritzing



# Coding Basics

- Coding is the process of creating instructions for a computer to follow
- It involves writing and organizing sets of commands, called code, using a programming language
- Computers can do basic operations faster and more accurately than you can, but can only act according to rigid instructions
- Coding enables computers to perform tasks, solve problems, and create software, websites, apps, and more

# Coding Basics

## Variables:

- Variables allow you to store data
- In C++ you need to specify your variables datatype

### Variables in C++

```
int age = 20; ← value  
datatype      variable_name
```

## Datatypes:

- Specifies what kind of information is being stored

Type	Usage	Examples
int	integer numbers	0 420
double	floating-point numbers	3.14 -200.0
char	characters	'a' '@'
string	sequence of characters	"Hello World!" "Codecademy"
bool	truth values	true false

# Conditional Statements

## Conditional Statements (if else):

- Condition is an expression that results in a bool (T or F)
- Ex. 'num == 17' will be true if the value stored in 'num' is 17
- Different code executes depending on whether your condition is T or F
- Can also have "else if (condition)" after if statement and before else

```
if (condition)
{
    // execute code statements of if block when
    // condition is true
}

else
{
    // execute code statements of if block when
    // condition is true
}
```

```
1 int x = 0;
2
3 void setup() {
4     Serial.begin(9600);
5 }
6
7 void loop() {
8     if (x >= 10){
9         Serial.print(x);
10        Serial.println(" > 10 woohoo");
11    }
12    else if (x < 10 && x >= 5){
13        Serial.print(x);
14        Serial.println(" between 5 and 10");
15    }
16    else{
17        Serial.print(x);
18        Serial.println(" not between 5 and 10");
19        // or x = x + 1
20    }
21    x++;
22    delay(100);
23 }
24
```

Serial Monitor

```
0 not between 5 and 10
1 not between 5 and 10
2 not between 5 and 10
3 not between 5 and 10
4 not between 5 and 10
5 between 5 and 10
6 between 5 and 10
7 between 5 and 10
8 between 5 and 10
9 between 5 and 10
10 > 10 woohoo
11 > 10 woohoo
```

# Loops

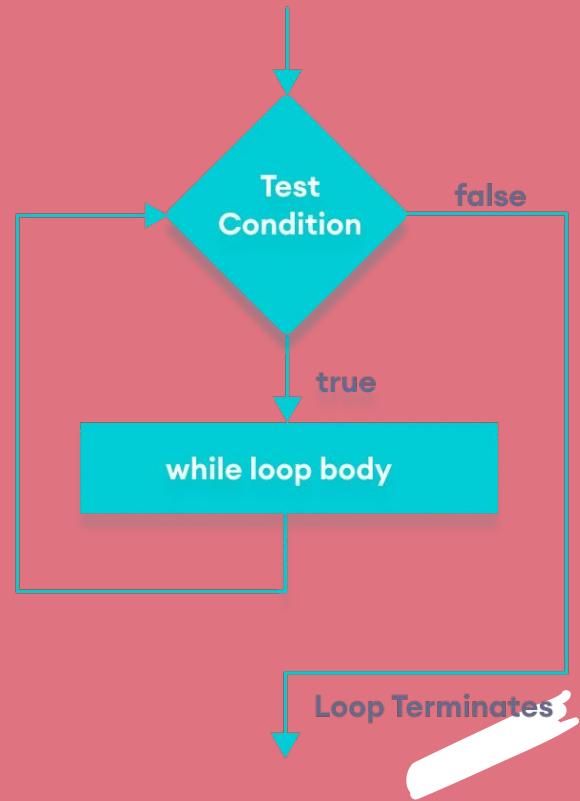
## Loops:

- Execute code while condition is True
- For loops also exist (but no time to cover right now)

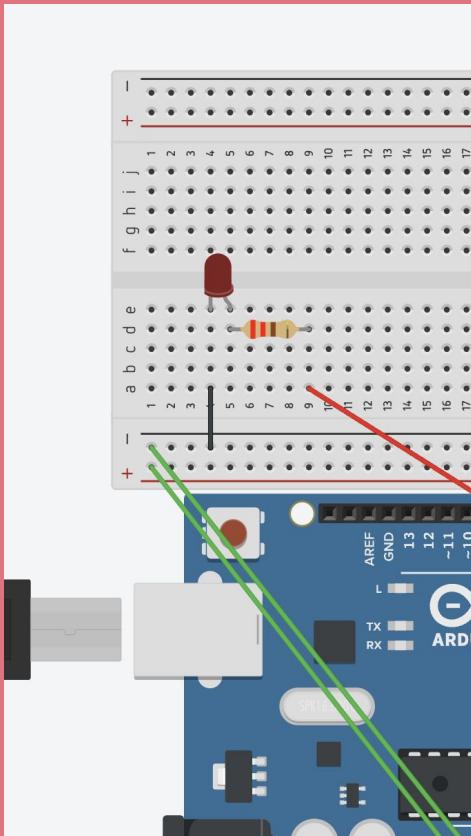
```
#include <iostream>
using namespace std;

int main() {
    int i = 0;
    while (i < 5) {
        cout << i << "\n";
        i++;
    }
    return 0;
}
```

0  
1  
2  
3  
4



# Arduino Code Structure

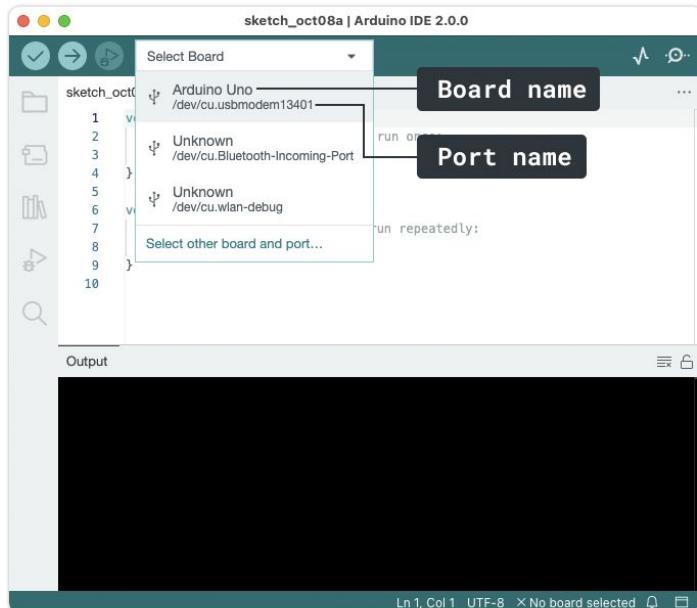


```
Text 1 (Arduino)
1 int ledPin=8; //define pin 8 as pin to control the LED
2
3 void setup()
4 {
5     pinMode(ledPin,OUTPUT);      //Set pinmode for pin 8 to OUTPUT
6 }
7 void loop()
8 {
9     digitalWrite(ledPin,HIGH);  //HIGH is set to about 5V PIN8
10    delay(1000);               //Set the delay time, 1000 = 1S
11    digitalWrite(ledPin,LOW);   //LOW is set to about 5V PIN8
12    delay(1000);               //Set the delay time, 1000 = 1S
13 }
14 }
```

# Flashing Code

1. Find the board selector and click to open.

2. A list of ports will be displayed. If a board could be identified, the board name will be displayed, otherwise, it will display "Unknown".



3. Click on a port to select it.

## 5. Upload a sketch

1. Write a sketch, or use an Example such as Blink (*File > Examples > 01.Basics > Blink*).

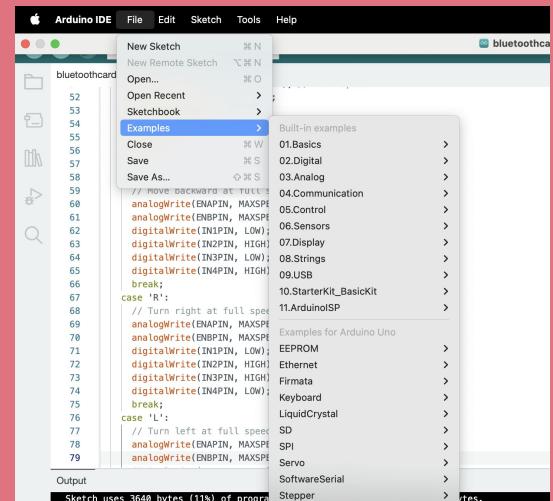
2. **Optional:** Click the **Verify** button to try compiling the sketch and check for errors.

3. Click the **Upload** button to program the board with the sketch.

Your sketch will start running on the board. It will run again each time the board is reset.

Sample code in:

File -> Examples



# Some Basic Electrical Components

## Resistor



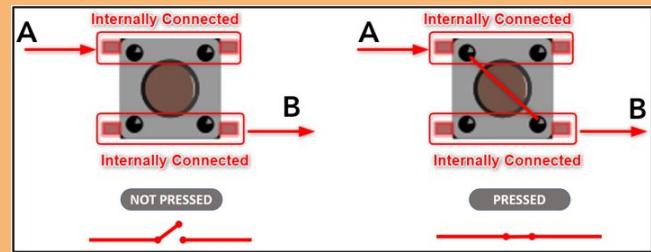
Slows down the flow of electricity in a circuit, controlling how much current can pass through.

## LED



A small light that turns on when electricity is present. Direction matters, only lets current flow one way

## Buttons



A button acts like a switch. Once the button gets pressed, the top pins get connected to the bottom pins and current can flow

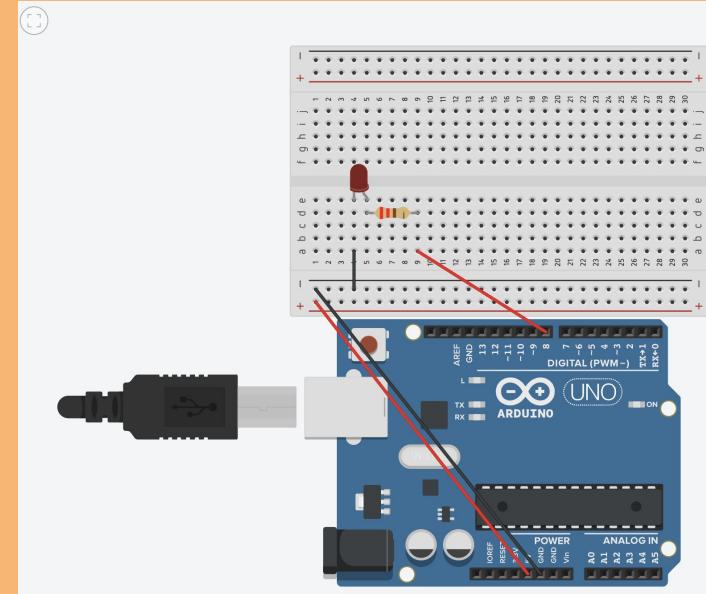
# DigitalWrite

A digital value is a value that is either 1 or 0, aka HIGH or LOW, aka ON or OFF.

For this board, high = 5V, low = 0V

Arduino allows you to output digital values from the numbered pins

Here is an example where we use digitalWrite to make an LED blink



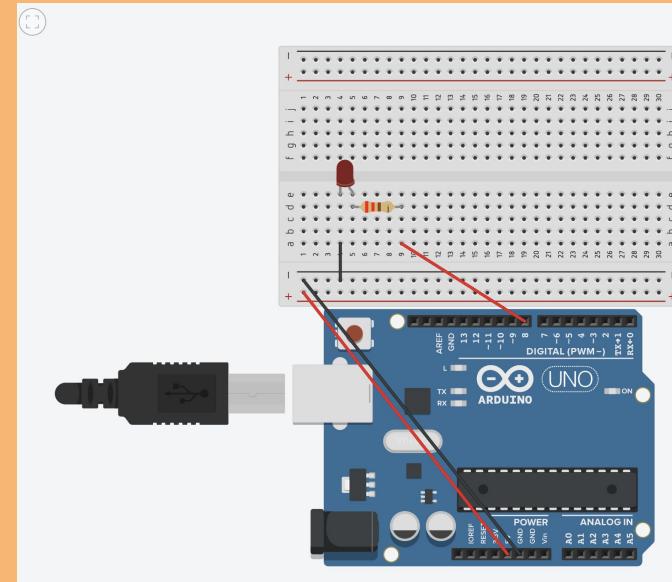
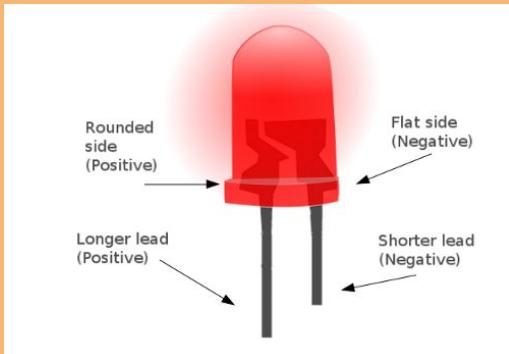
```
1 int ledPin=8; //define pin 8 as pin to control the LED
2
3
4 void setup()
5 {
6     pinMode(ledPin,OUTPUT);      //Set pinmode for pin 8 to OUTPUT
7 }
8 void loop()
9 {
10    digitalWrite(ledPin,HIGH);  //HIGH is set to about 5V PIN8
11    delay(1000);               //Set the delay time, 1000 = 1S
12    digitalWrite(ledPin,LOW);   //LOW is set to about 5V PIN8
13    delay(1000);               //Set the delay time, 1000 = 1S
14 }
```

# Try It Yourself! Blink an LED!

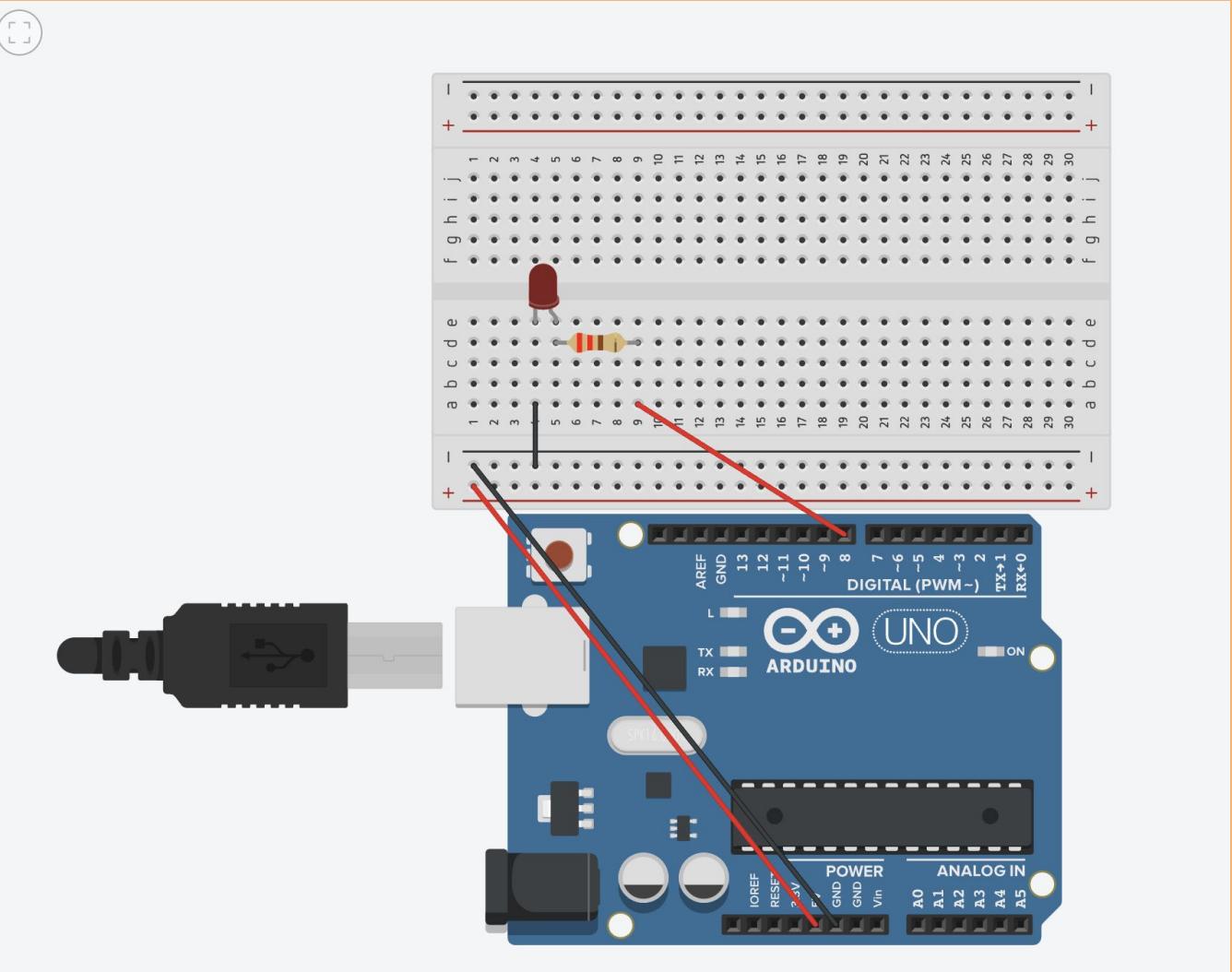
LEDs have a polarity meaning DIRECTION MATTERS

The shorter leg needs to be connected to the lower voltage aka GND (0V)

A resistor is needed to limit the current to the LED to prevent it from burning out



```
1 int ledPin=8; //define pin 8 as pin to control the LED
2
3 void setup()
4 {
5     pinMode(ledPin,OUTPUT);      //Set pinmode for pin 8 to OUTPUT
6 }
7 void loop()
8 {
9     digitalWrite(ledPin,HIGH);   //HIGH is set to about 5V PIN8
10    delay(1000);               //Set the delay time, 1000 = 1S
11    digitalWrite(ledPin,LOW);    //LOW is set to about 5V PIN8
12    delay(1000);               //Set the delay time, 1000 = 1S
13 }
14 }
```



# Example Code

<https://github.com/111homell111/HamberArduinoExamples>

The screenshot shows a GitHub repository page for the user '111homell111' named 'HamberArduinoExamples'. The repository is public and contains 1 branch and 0 tags. The main branch has 3 commits by the owner, all made 2 minutes ago. The commits are: 'Added example 3 and 4', 'Updated File structure', and 'Added example 3 and 4'. The repository has 0 forks and 0 stars. There is no description or website provided. The README file is empty, and there are sections for releases, packages, languages, and suggested workflows.

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

HamberArduinoExamples Public

main 1 Branch 0 Tags

Go to file Add file > Code

111homell111 Added example 3 and 4 52f7b55 · 2 minutes ago 3 Commits

Example 1 - Blinking LED Updated File structure 2 hours ago

Example 2 - Blinking LED with Push Button Updated File structure 2 hours ago

Example 3 - Servo Sweep Added example 3 and 4 2 minutes ago

Example 4 - Sonar Added example 3 and 4 2 minutes ago

.DS\_Store Added example 3 and 4 2 minutes ago

README

Add a README

Help people interested in this repository understand your project by adding a README.

Add a README

About

No description, website, or topics provided.

Activity 0 stars 1 watching 0 forks

Releases

No releases published Create a new release

Packages

No packages published Publish your first package

Languages

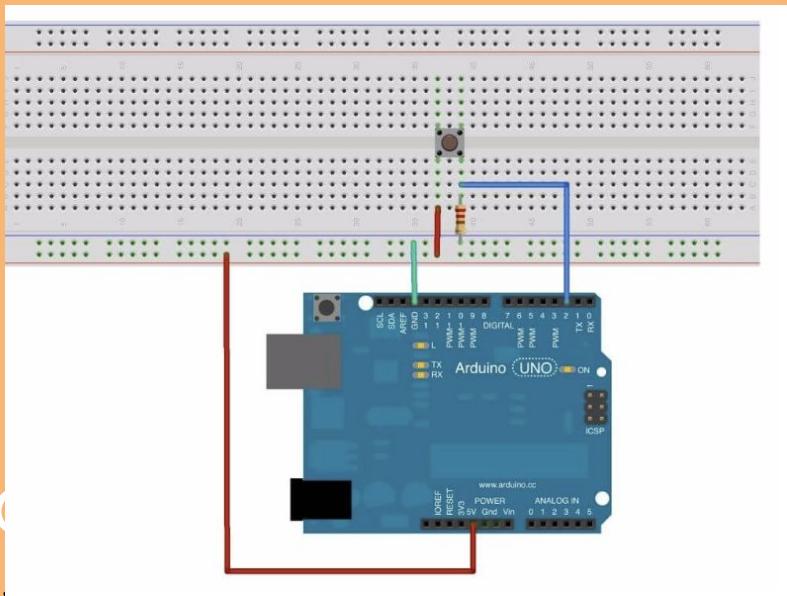
C++ 100.0%

Suggested workflows

Based on your tech stack

# Digital Read

Example of a digitalRead



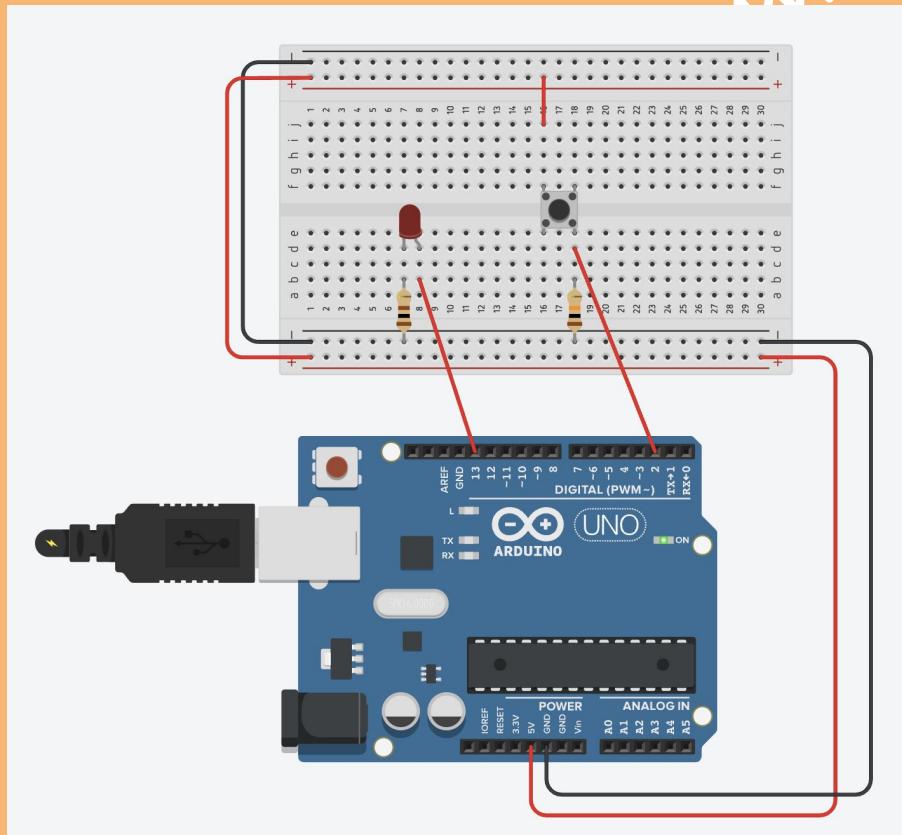
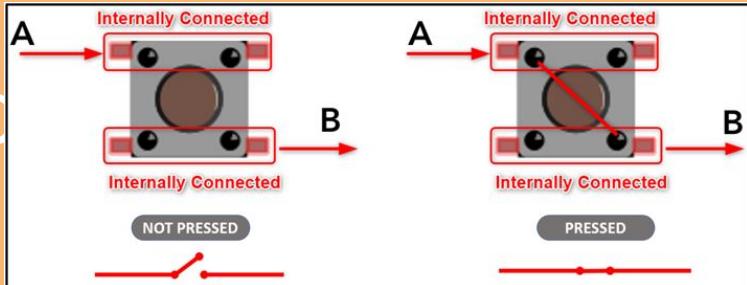
Arduino Uno

```
sketch_may2a.ino
1 // digital pin 2 has a pushbutton attached to it. Give it a name:
2 int pushButton = 2;
3 // the setup routine runs once:
4 void setup() {
5     // initialize serial communication at 9600 bits per second:
6     Serial.begin(9600);
7     // make the pushbutton's pin an input:
8     pinMode(pushButton, INPUT);
9 }
10 // the loop routine runs over and over again forever:
11 void loop() {
12     // read the input pin:
13     int buttonState = digitalRead(pushButton);
14     // print out the state of the button:
15     Serial.println(buttonState);
16     delay(1); // delay in between reads for stability
17 }
```

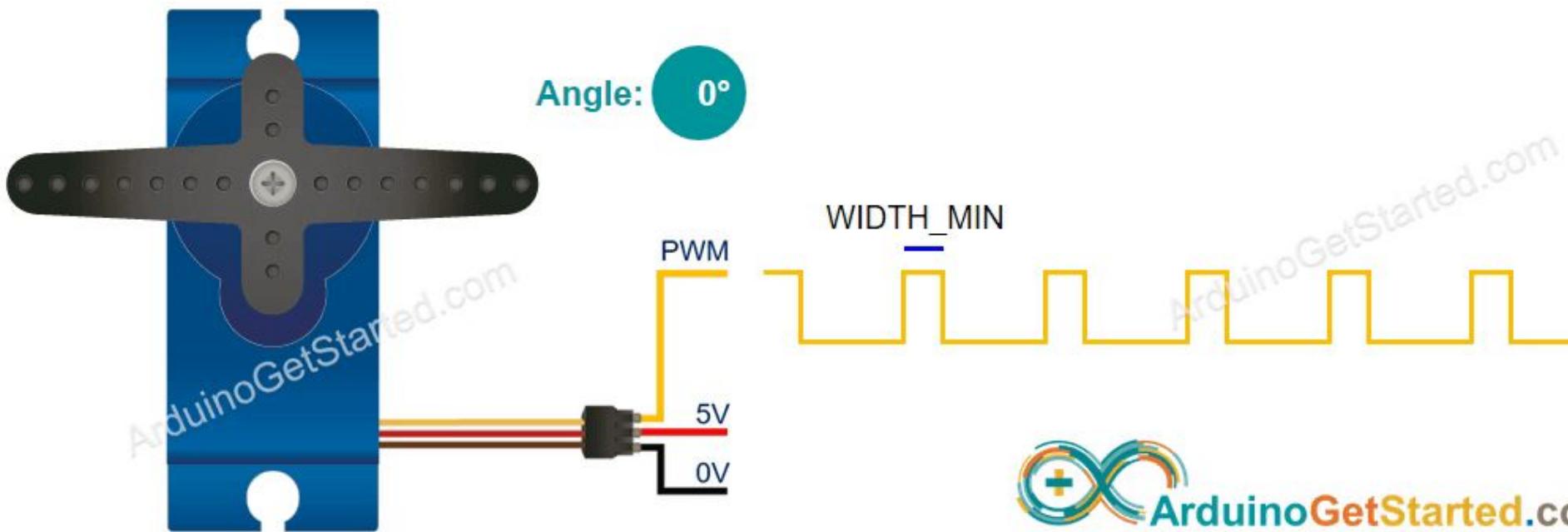
# Control LED with Button

Try to make the LED blink 3 times when the button is pressed

Try to combine the knowledge of the two circuits we just made!



# Example 3. Servo Sweep



ArduinoGetStarted.com

05.

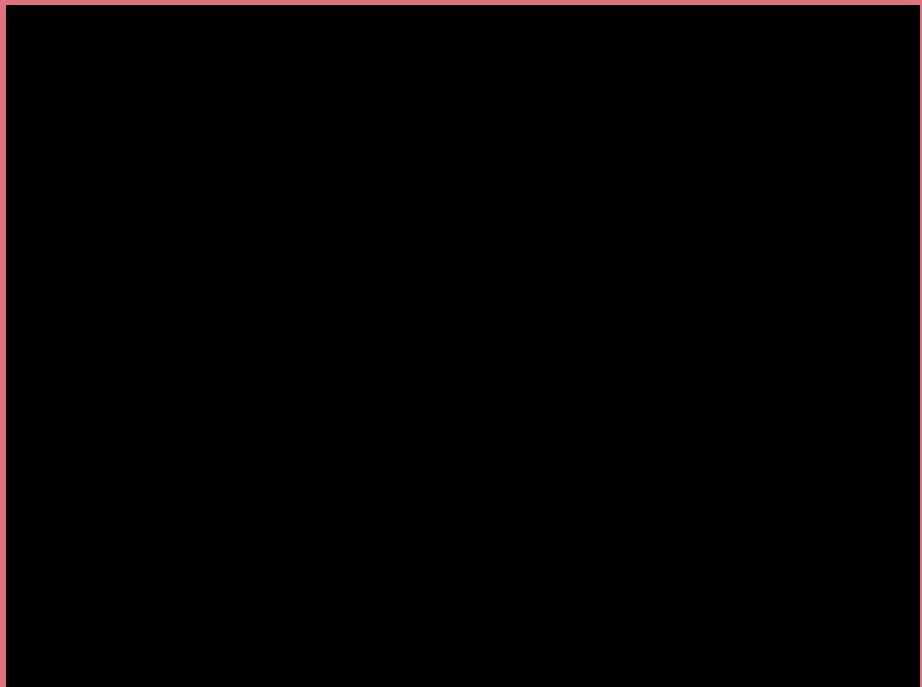
# Projects Overview

Teehee



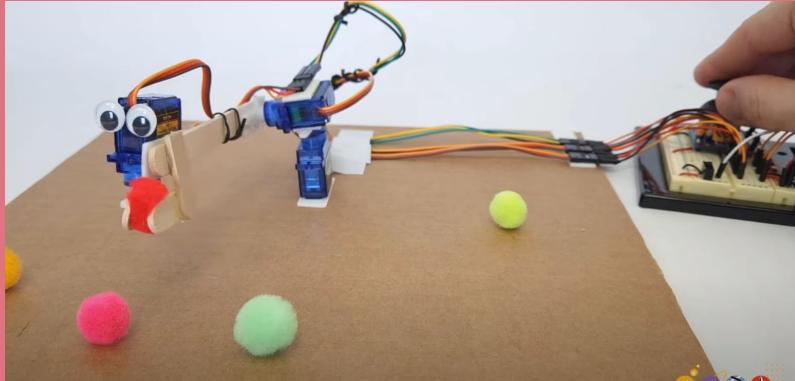
# Car Project

- Remote Controlled Arduino Car!!!
- Involves:
  - DC Motors
  - Bluetooth
- Slightly more coding intensive

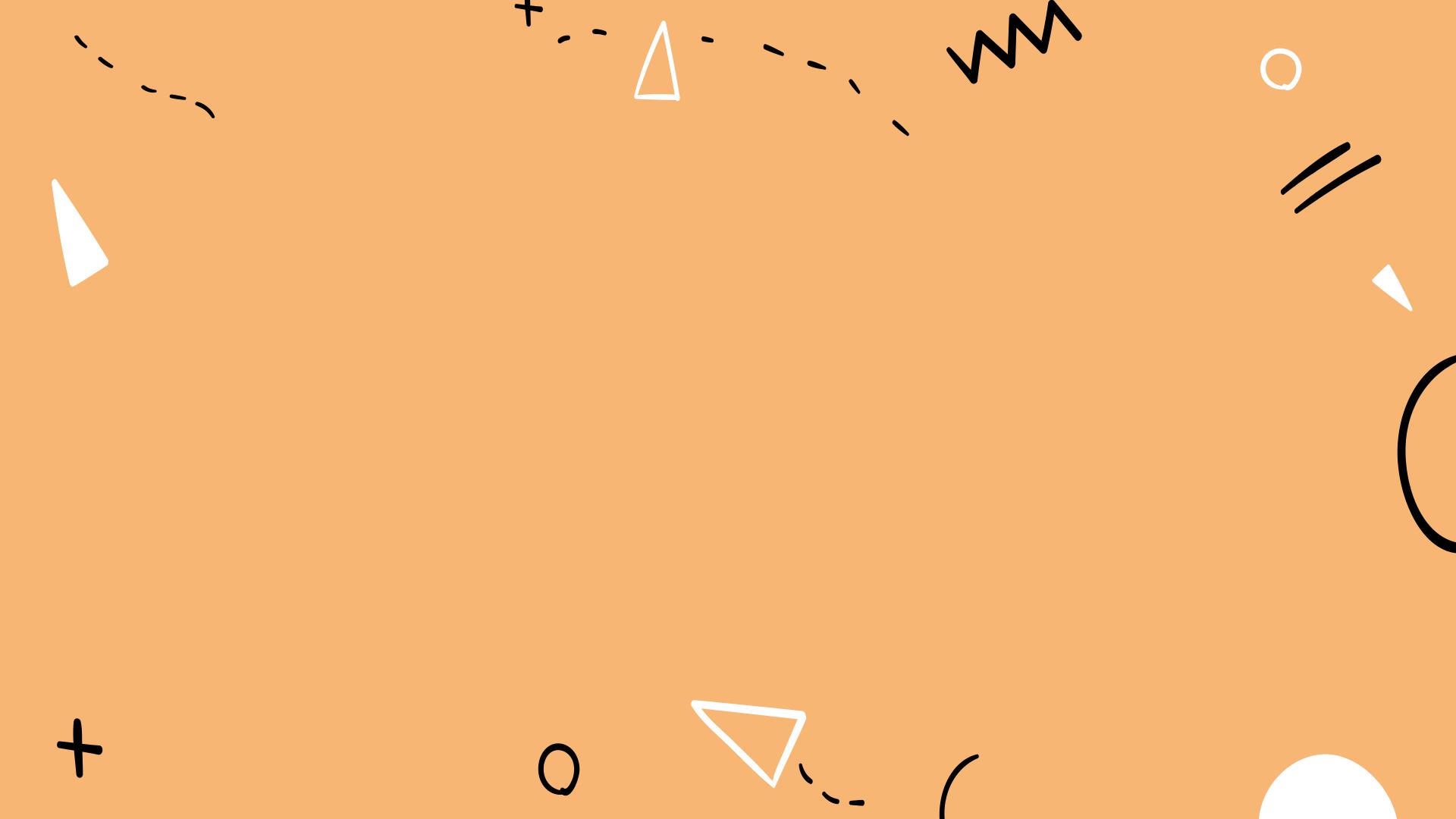


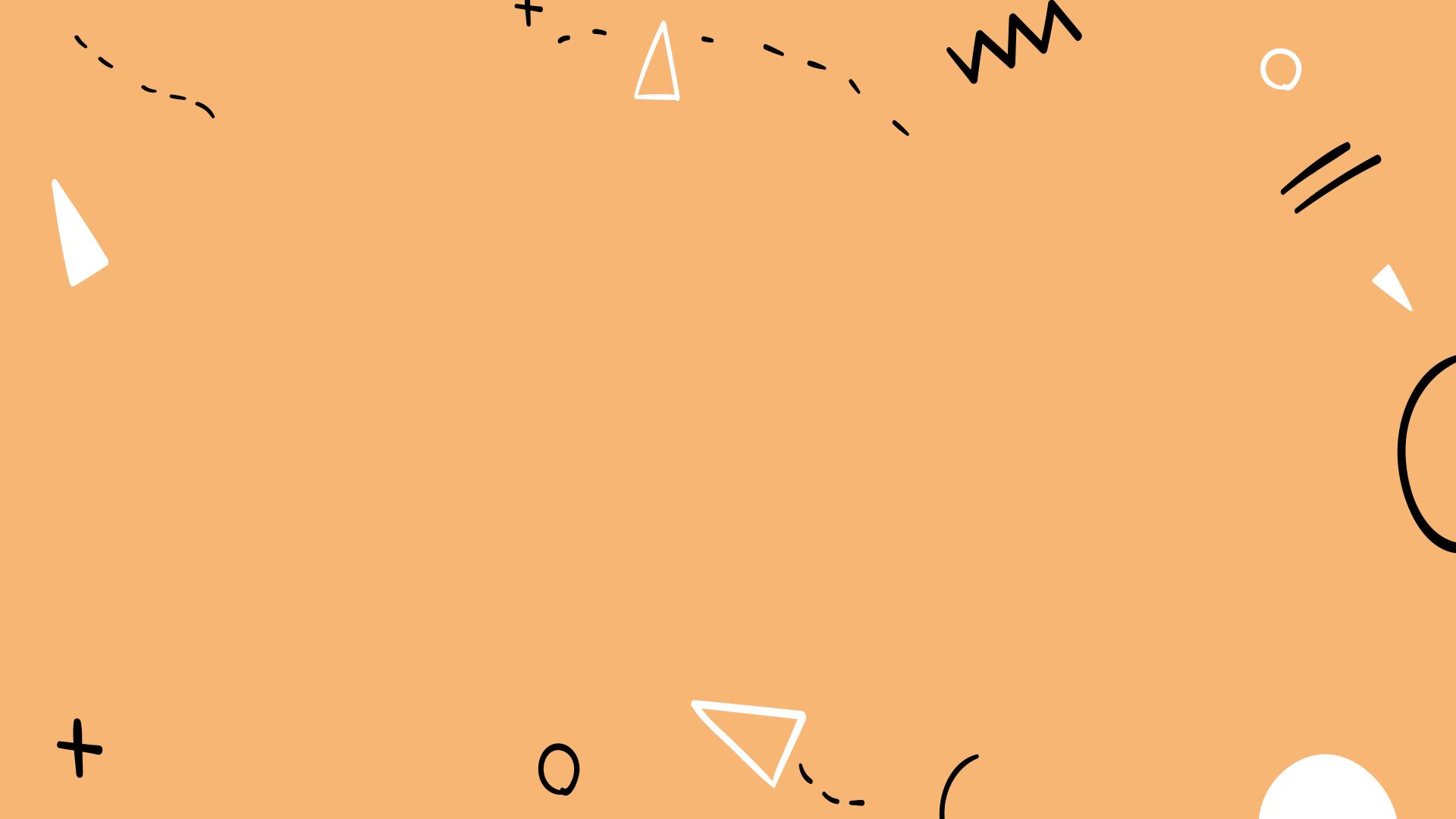
# Automatic Trash Can/Servo Claw

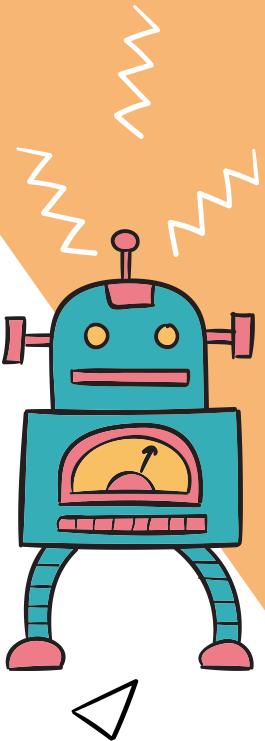
- Involves:
  - Servos
  - Sonars
  - Joysticks
- Claw Video



# Questions?





**01**

## Problem Vs. Solution

Here you could  
describe the topic of  
the section

**02**

## Our Product

Here you could  
describe the topic of  
the section

**03**

## Market & Competition

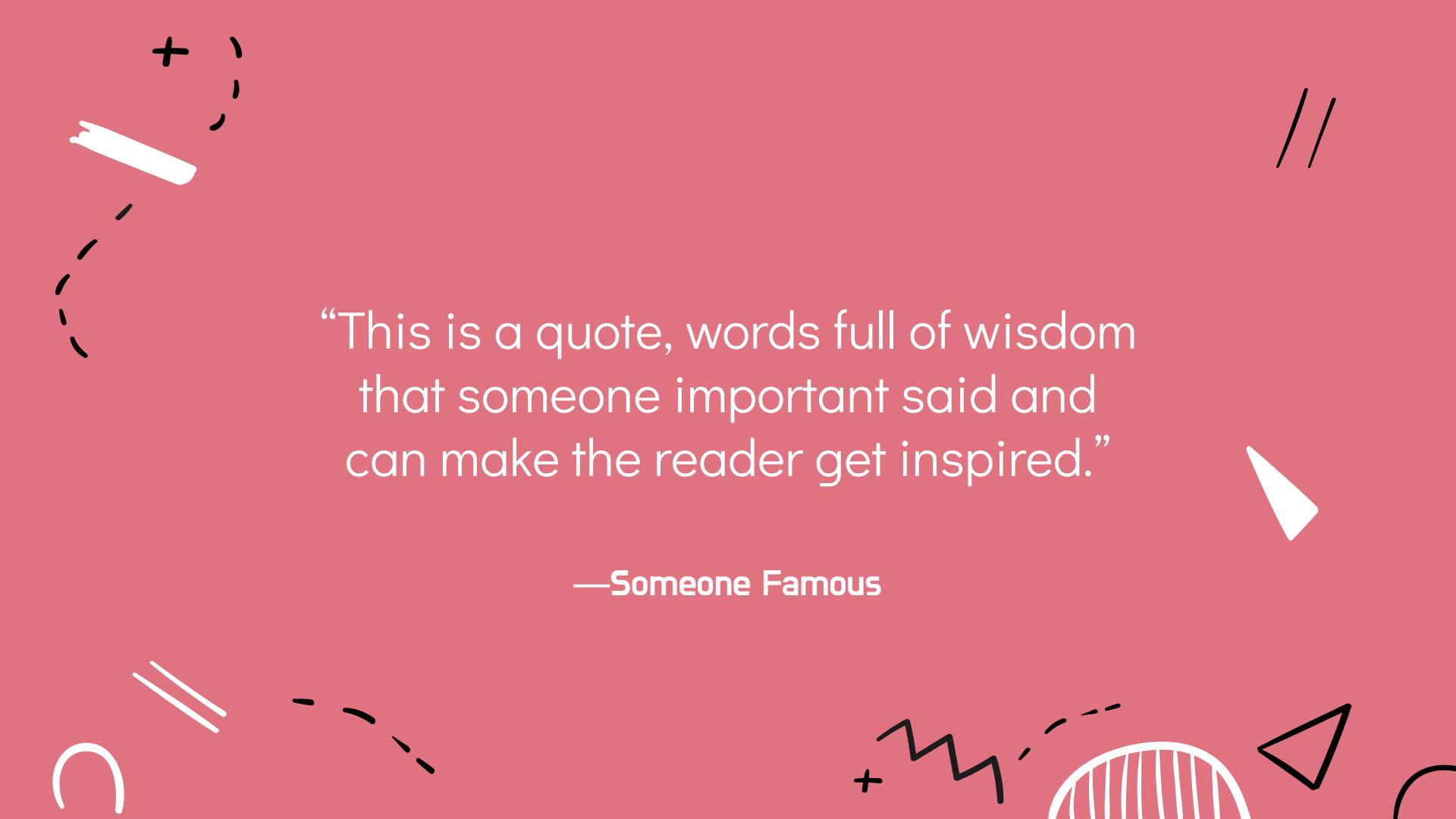
Here you could  
describe the topic of  
the section

**04**

## Business Model

Here you could  
describe the topic of  
the section





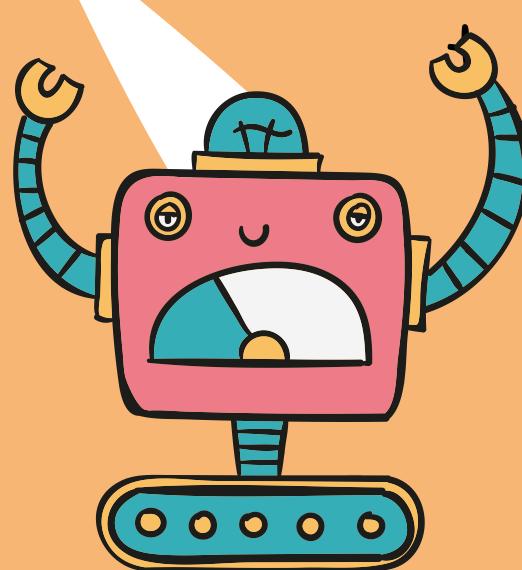
“This is a quote, words full of wisdom  
that someone important said and  
can make the reader get inspired.”

—Someone Famous

# 01.

## Problem Vs. Solution

You could enter a subtitle here if you  
need it



# Our Company

2015

Despite being red, Mars  
is actually a cold place

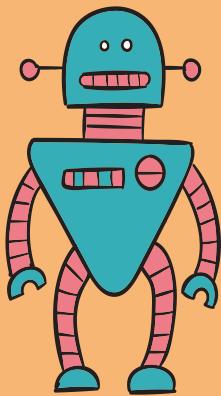
2018

Neptune is the farthest  
planet from the Sun

2020

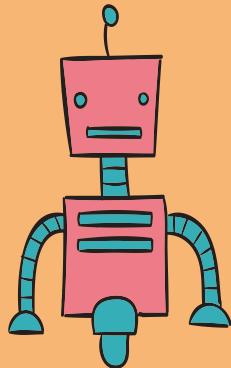
Venus is the second  
planet from the Sun

# Our Team



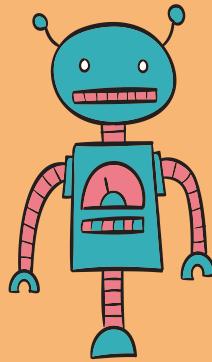
**John James**

You can replace the image on the screen with your own



**Jenna Doe**

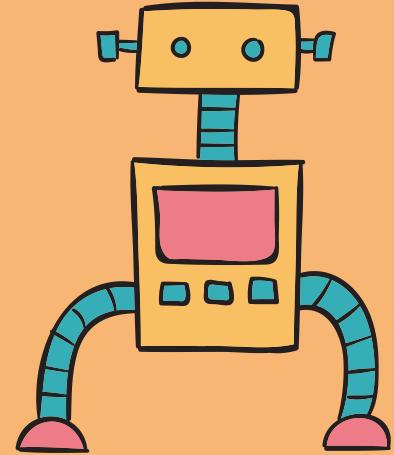
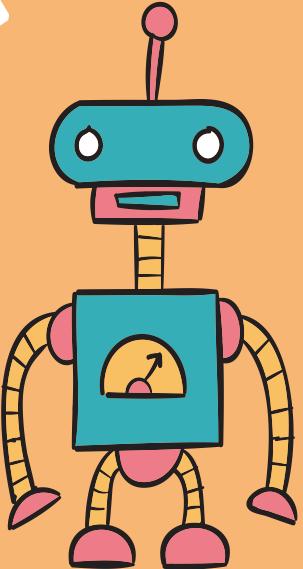
You can replace the image on the screen with your own



**Jane Patterson**

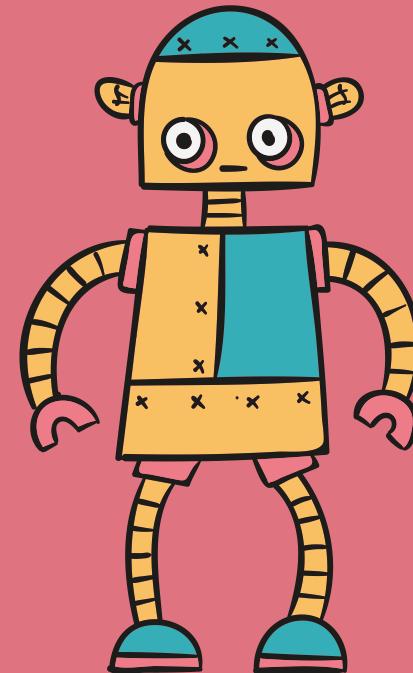
You can replace the image on the screen with your own

# Awesome Words

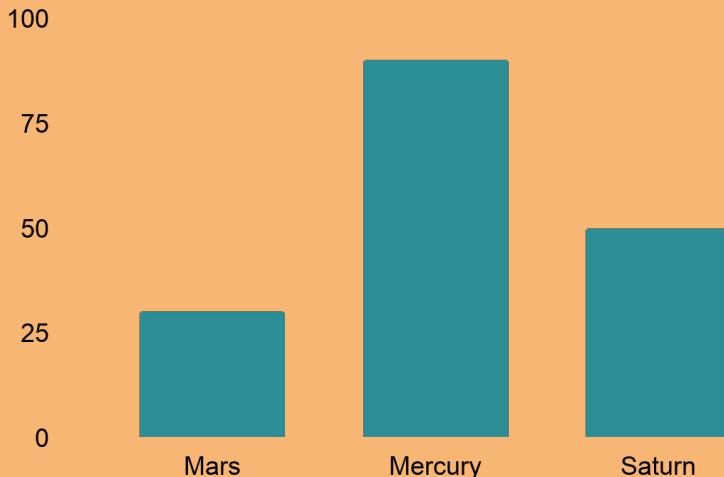


# Problem

Mercury is the closest planet to the Sun and the smallest one in the Solar System—it's only a bit larger than our Moon. The planet's name has nothing to do with the liquid metal since it was named after the Roman messenger god, Mercury



# Traction



If you want to modify this graph, click on it, follow  
the link, change the data and replace it

Venus has a beautiful name  
and is the second planet from  
the Sun. It's terribly hot—even  
hotter than Mercury

## Them



Mercury is the closest planet to the Sun and the smallest one in the Solar System—it's only a bit larger than our Moon. The planet's name has nothing to do with the liquid metal

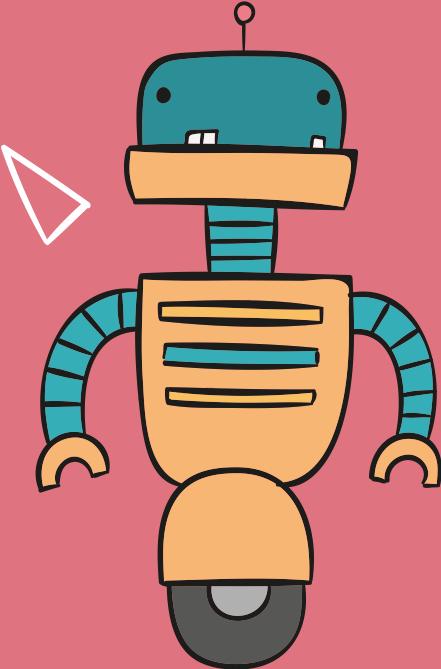
## Us



Venus has a beautiful name and is the second planet from the Sun. It's terribly hot—even hotter than Mercury—and its atmosphere is extremely poisonous

# Solution

Venus has a beautiful name and is the second planet from the Sun. It's terribly hot—even hotter than Mercury—and its atmosphere is extremely poisonous. It's the second-brightest natural object in the night sky after the Moon



# Swot Analysis

## Strengths



Despite being red, Mars is a cold place, not hot. It's full of iron oxide, which gives the planet

## Weakness



Yes, this is the ringed one. It's a gas giant, composed mostly of hydrogen and helium

## Opportunity



It's the biggest planet in our Solar System and the fourth-brightest object in the sky

## Threats



Saturn is the ringed one. It's a gas giant, composed mostly of hydrogen and helium

# Product Overview



## Venus

Yes, this is the ringed one. It's a gas giant, composed mostly of hydrogen and helium



## Mercury

Mercury is the closest planet to the Sun and the smallest one in the Solar System

# Our Plans

**\$30**

It's the biggest planet  
in our Solar System  
and the  
fourth-brightest object

**Basic**

**\$60**

Saturn is the ringed  
one. It's a gas giant,  
composed of  
hydrogen and helium

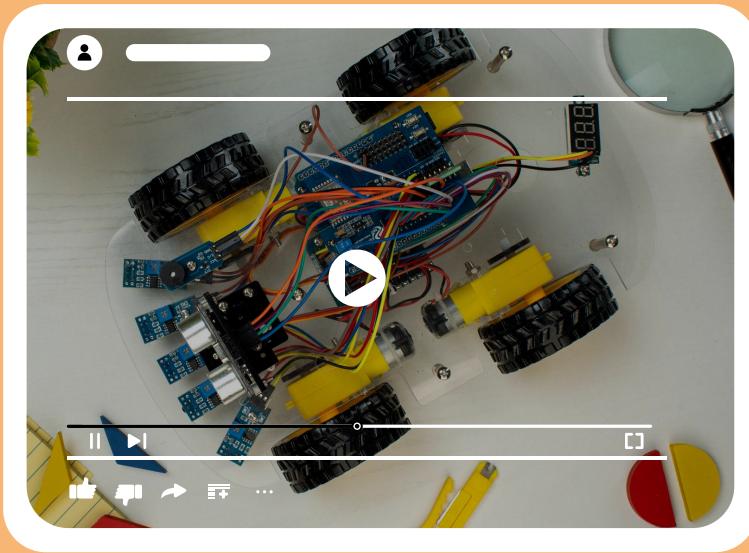
**Pro**

**\$90**

Jupiter is a gas giant  
and the biggest  
planet in our Solar  
System

**Premium**

# Product Demo



Insert your multimedia content here



# Case Study

	<b>Challenge</b>	<b>Results</b>	<b>Solution</b>
<b>Project 1</b>	Mercury is the closest planet to	Venus has a beautiful name	Despite being red, Mars is a
<b>Project 2</b>	Jupiter is the biggest planet	Saturn is the ringed one and	Neptune is the farthest planet
<b>Project 3</b>	Earth is the planet where we	Pluto is a mini planet	Ceres is in the main asteroid

# Reviews



**Helena James**

Mercury is the closest planet to the Sun and the smallest one in the Solar System—it's a bit larger than our Moon



**Jenna Doe**

Venus has a beautiful name and is the second planet from the Sun. It's terribly hot—even hotter than Mercury

# Awards



## Mercury

Mercury is the closest planet to the Sun and the smallest one in the Solar System—it's only a bit larger than our Moon



## Venus

Venus has a beautiful name and is the second planet from the Sun. It's terribly hot—even hotter than Mercury



## Jupiter

Despite being red, Mars is a cold place, not hot. The planet is full of iron oxide dust, which gives the planet

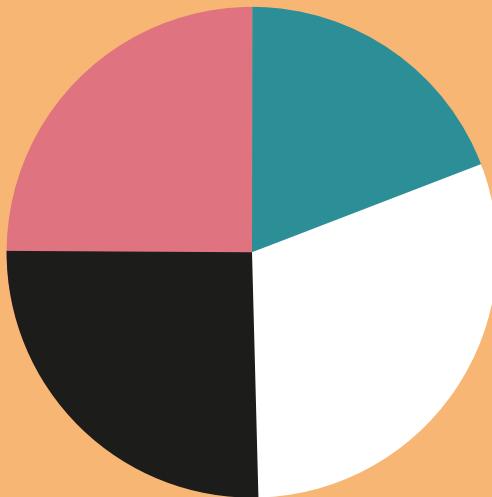
# Market Size

**25%**

Despite being red,  
Mars is actually a cold

**25%**

Saturn is a gas giant  
and has several rings



**15%**

Jupiter is the biggest  
planet in the Solar

**35%**

Mercury is the smallest  
planet in the Solar

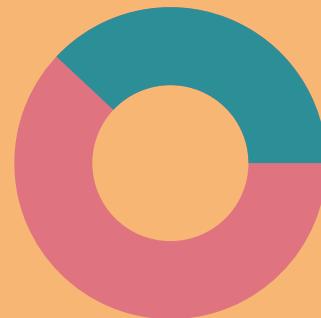
# Target

## Gender

34%



66%



## Hobbies



Jupiter



Venus



Mars



## Age



20-30

40-60

# Business Model

## Marketing

Despite being red,  
Mars is a cold place



## Technology

Mercury is the closest  
planet to the Sun



## Training

Venus is the second  
planet from the Sun



## Assessment

Jupiter is a gas giant  
and the biggest planet



# Competitors



## Company 1

Mercury is the closest planet to the

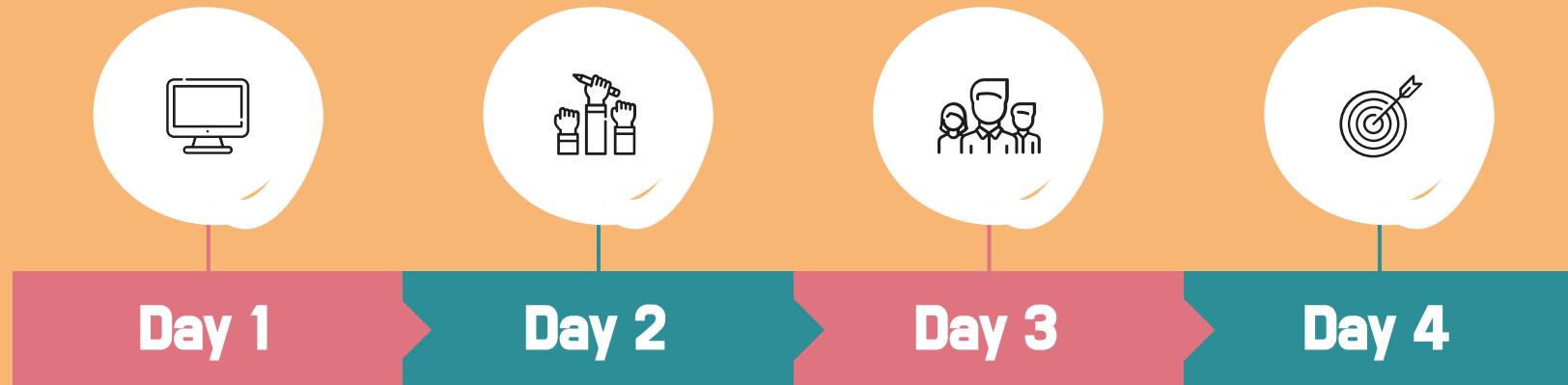


## Company 2

Venus has a beautiful name and



# Timing



Jupiter is a gas giant and the biggest planet

Venus has a beautiful name, but it's very hot

Despite being red, Mars is a cold place, not

Mercury is the closest planet to the Sun planet

# Predicted Growth

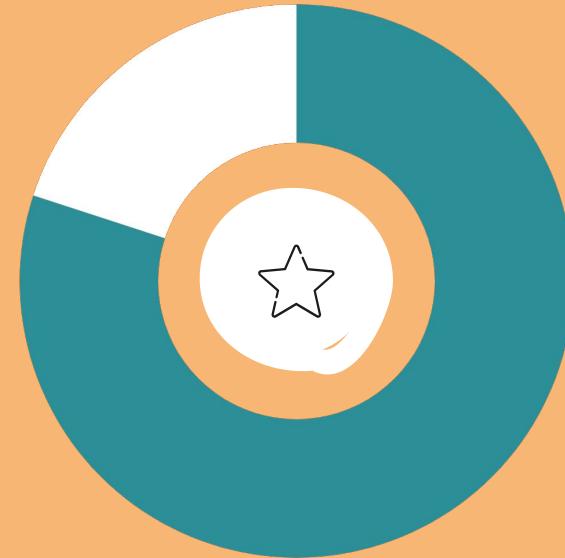
**20.000**

Expected income for 2020

**100**

New employees next year

If you want to modify this graph, click on it,  
follow the link, change the data and replace it



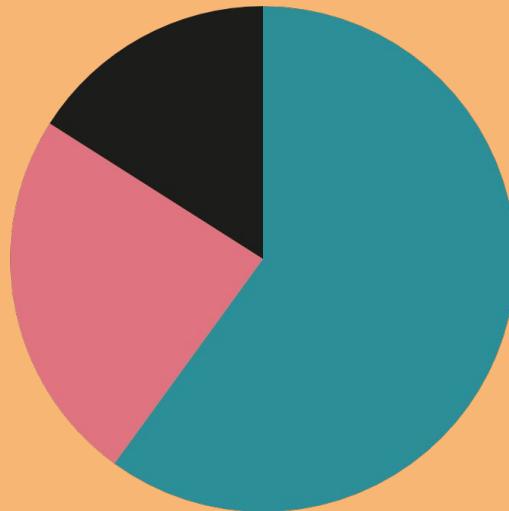
# Investment

24%

It's a gas giant and the biggest planet in

36%

Venus has a beautiful name, but it's terribly



40%

Mercury is the closest planet to the Sun and

If you want to modify this graph, click on it, follow the link, change the data and replace it

# Sometimes. Reviewing Concepts



## Mercury

Mercury is the closest planet to the Sun



## Venus

Venus is the second planet from the Sun



## Mars

Despite being red, Mars is a cold place



## Jupiter

It's the biggest planet in the Solar System



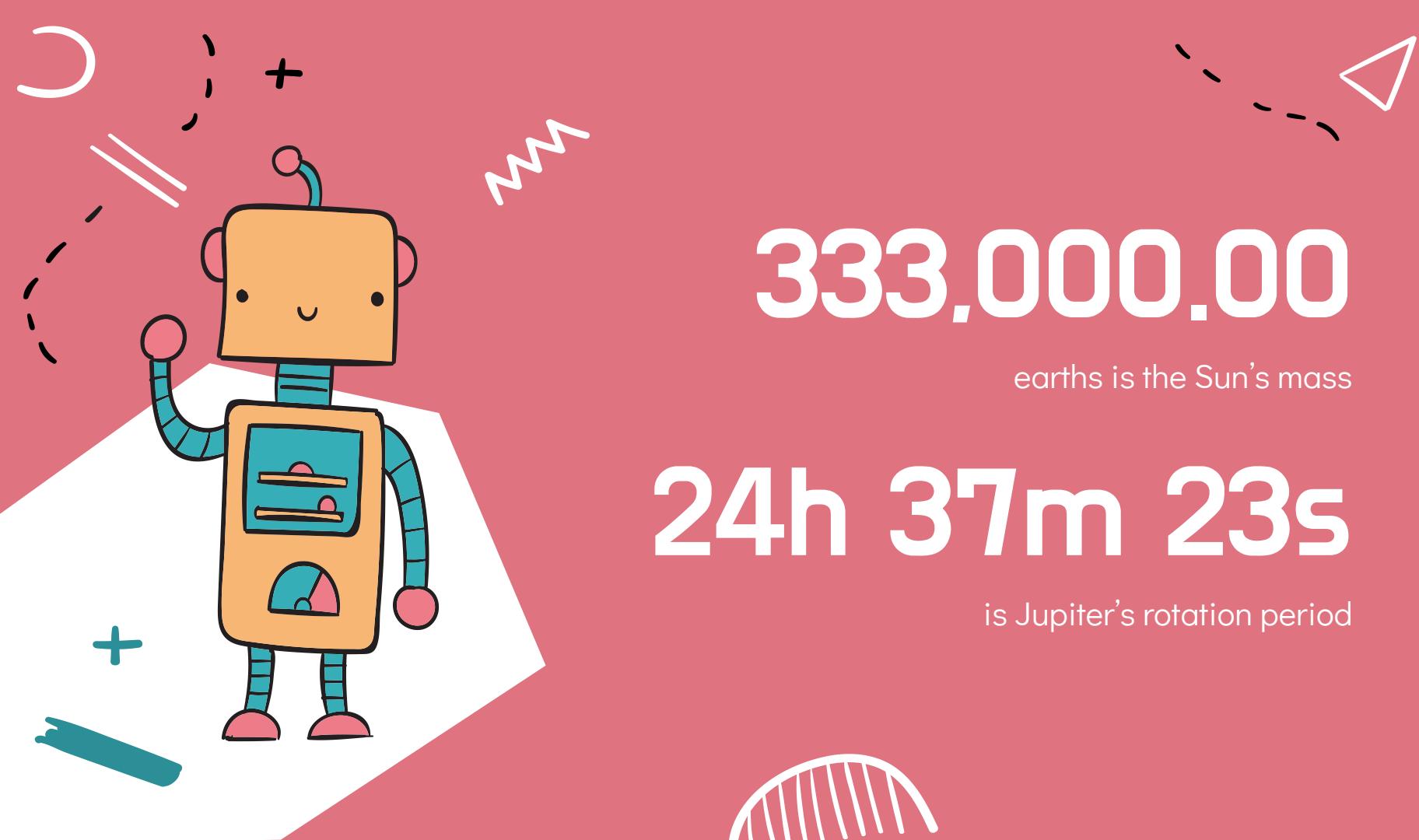
## Saturn

Saturn is the ringed one and a gas giant



## Neptune

Neptune is the farthest planet from



# 333,000.00

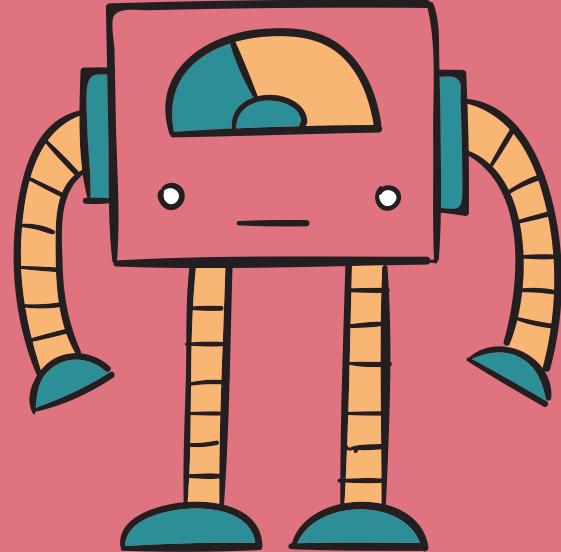
earths is the Sun's mass

# 24h 37m 23s

is Jupiter's rotation period

# 2.004.300

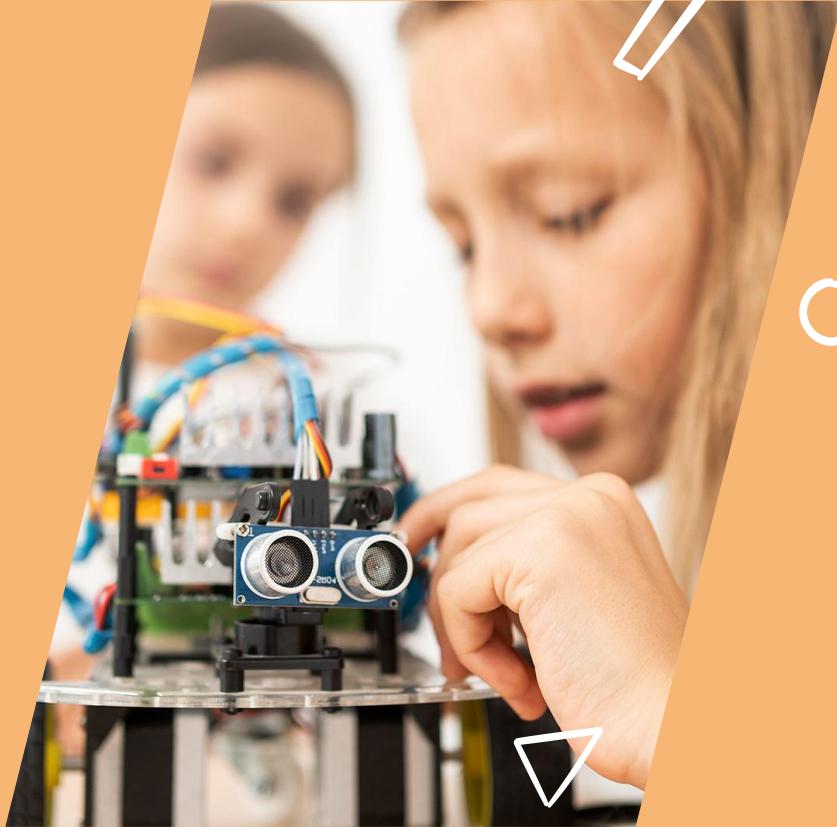
Big numbers catch your audience's attention





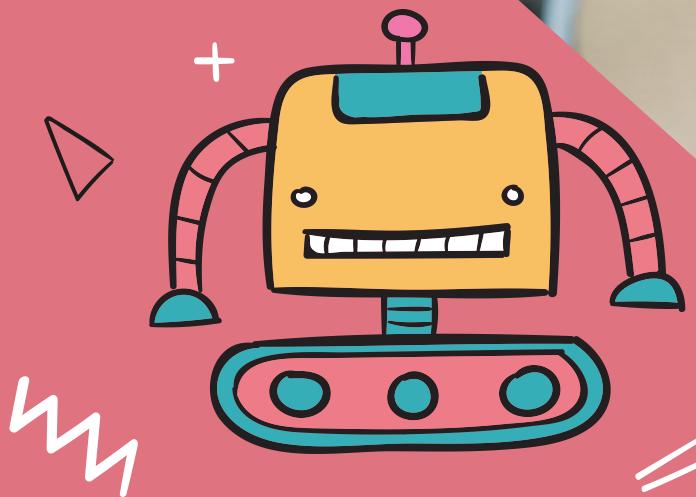
# A Picture Always Reinforces The Concept

Images reveal large amounts of data, so remember: use an image instead of long texts





# A Picture is Worth a Thousand Words



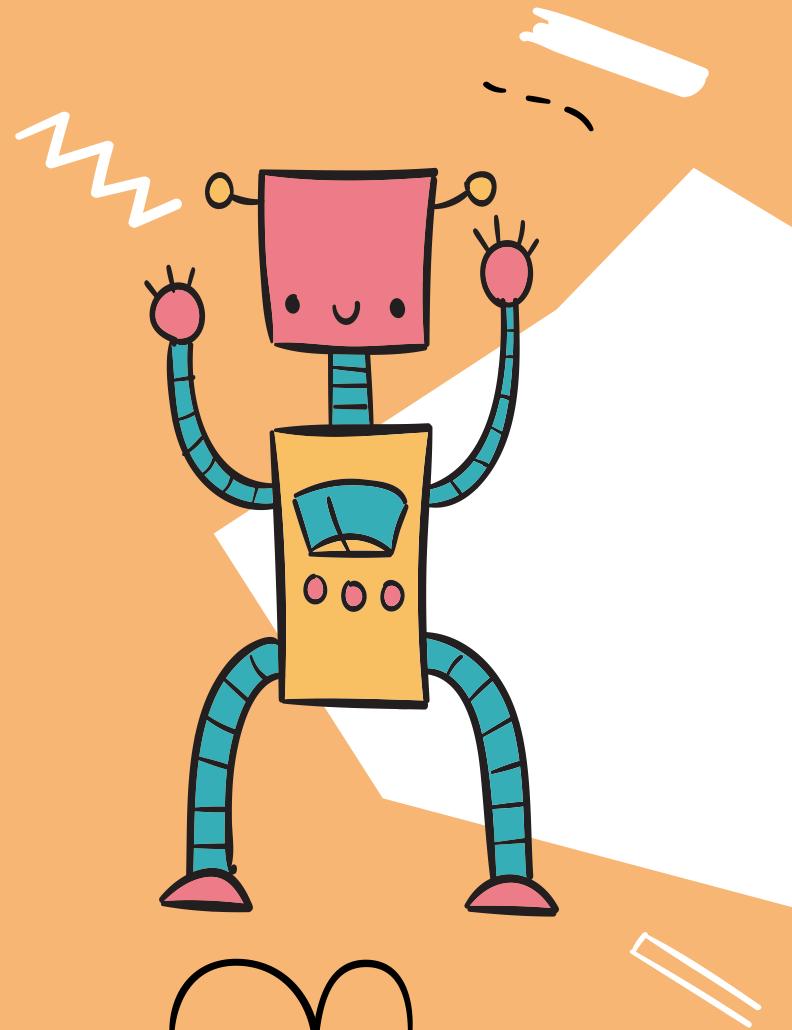
# Thanks!

Does anyone have any questions?  
[addyouremail@freepik.com](mailto:addyouremail@freepik.com)  
620 421 838

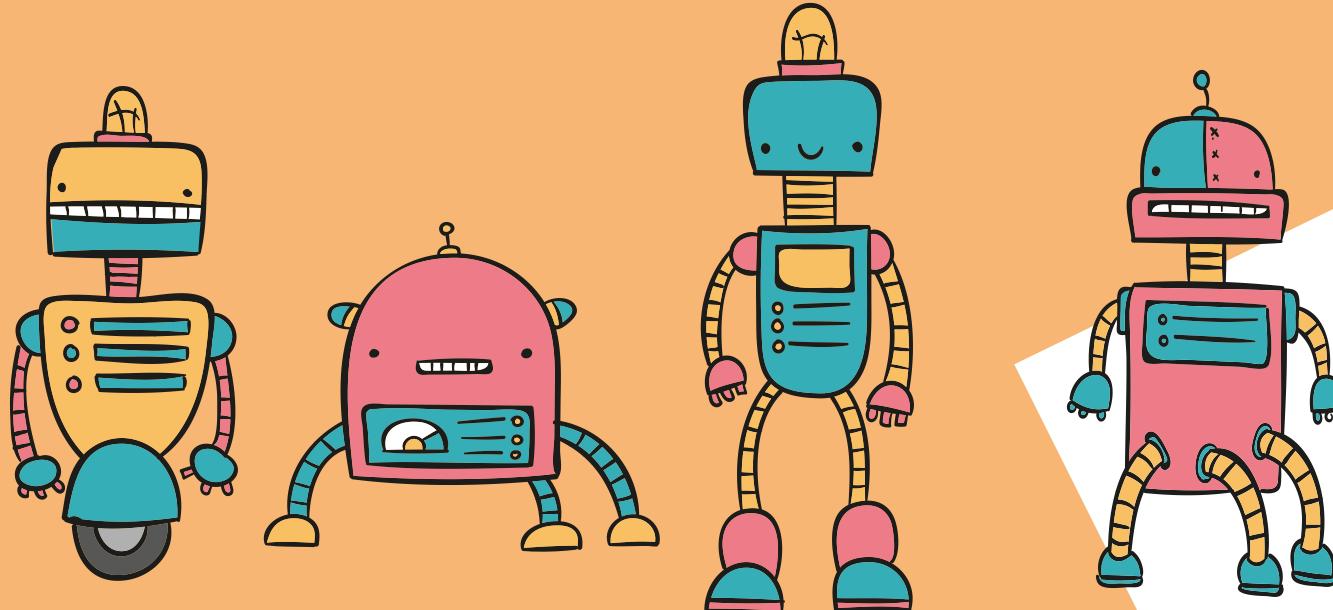


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# Resources



# Resources

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- Horizontal shot of smiling beautiful woman in red shirt.
- Blonde female executive posing with smile and arms crossed during brainstorm with managers.
- Two friends doing science experiments.
- Man attaching action camera to drone.
- Fixing drone in maintenance shop.
- Robot style car with joystick.

## Vector

- Memphis cover collection
- Flat robots collection.
- Hand drawn robot collection with different poses
- Hand drawn robot collection with different poses
- Hand drawn robot collection with different poses
- Hand drawn robot character collection
- Hand drawn robot character collection

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#df7480

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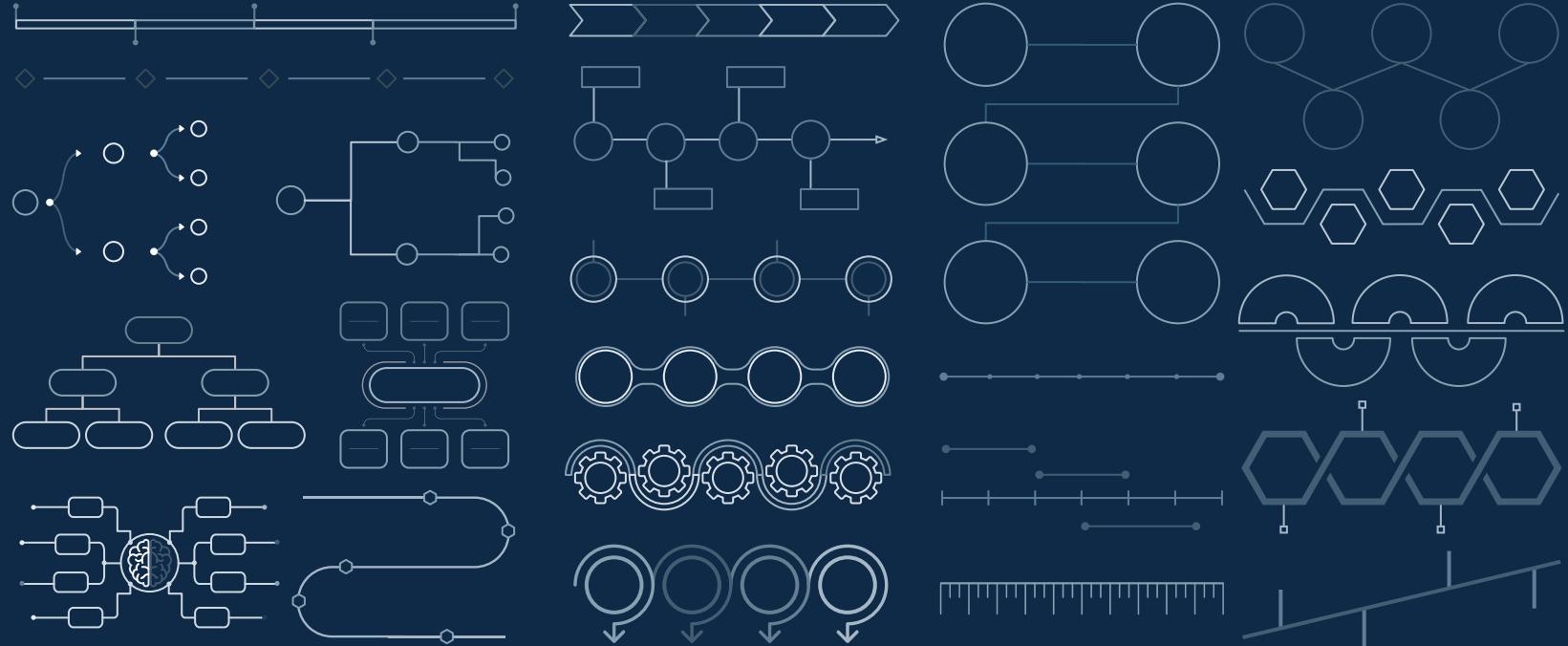
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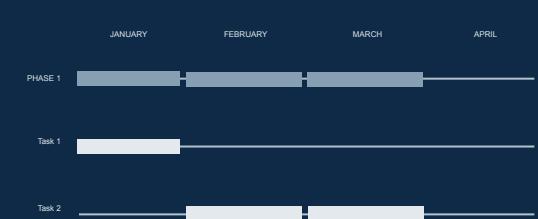
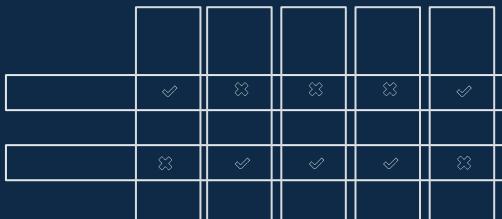
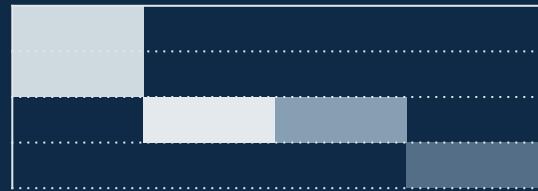
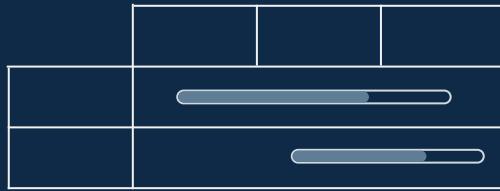
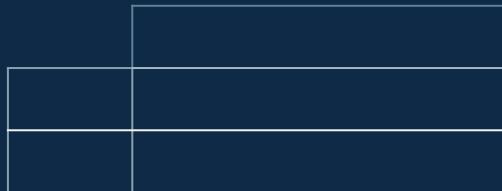
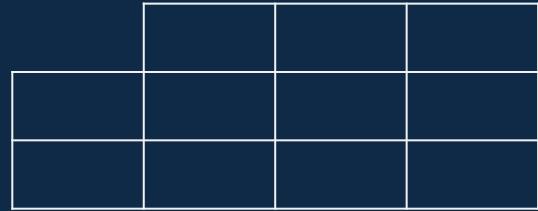
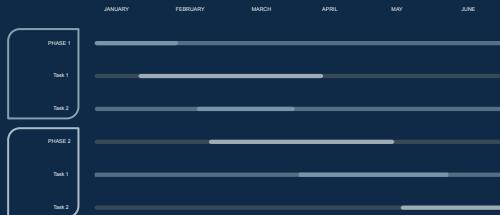
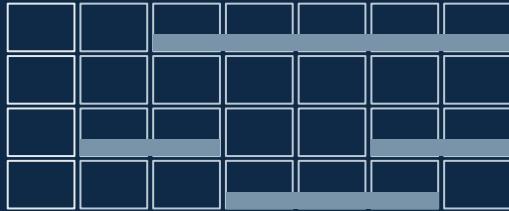
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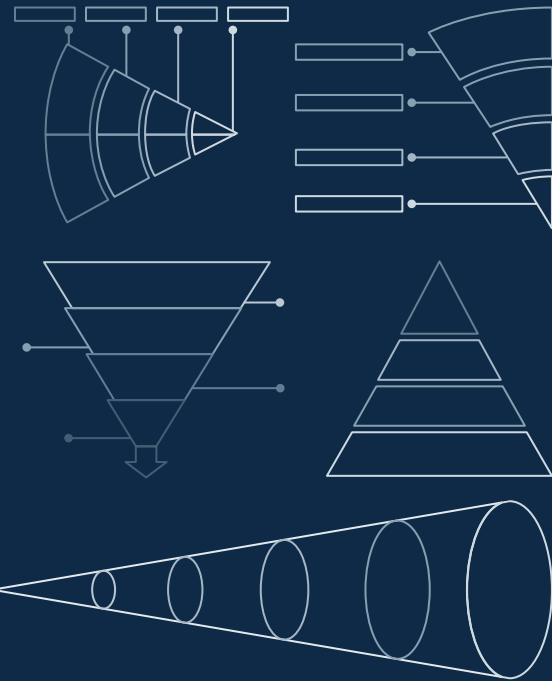
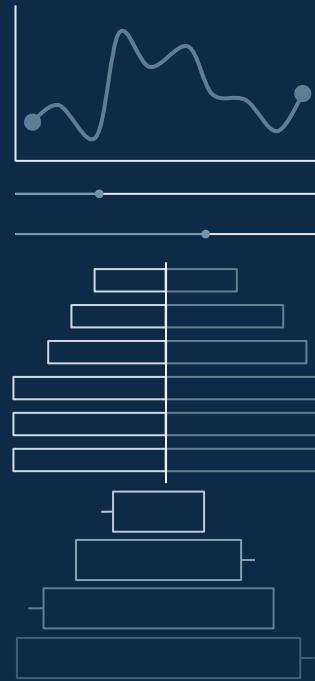
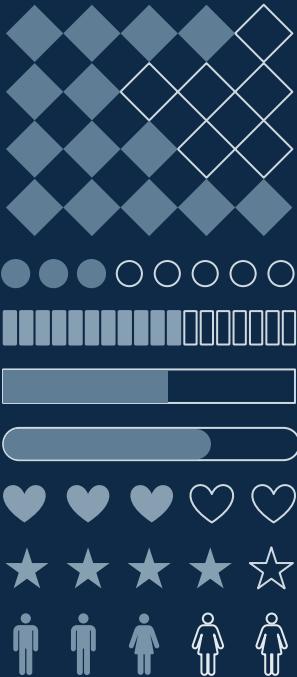
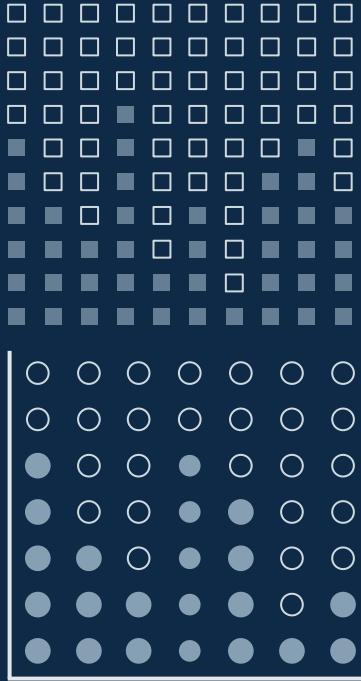












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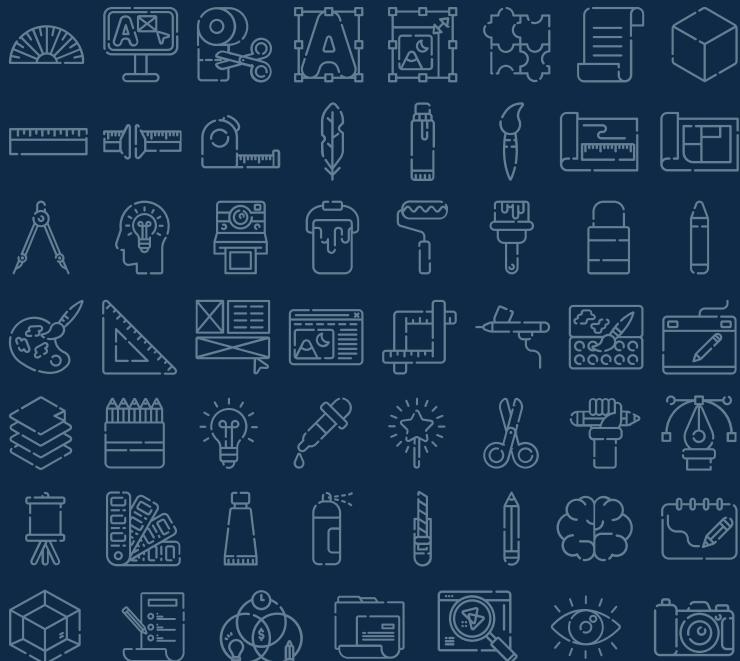
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