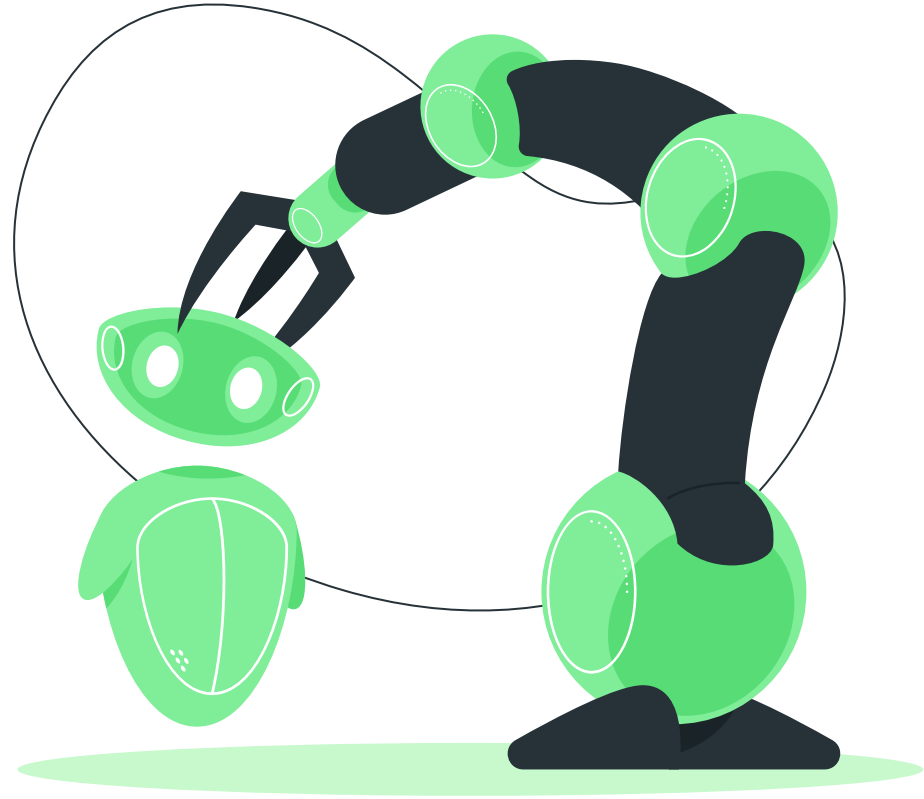


Explaining AI in 30 slides or less

How similar are A.I. and
Robots? [5m]



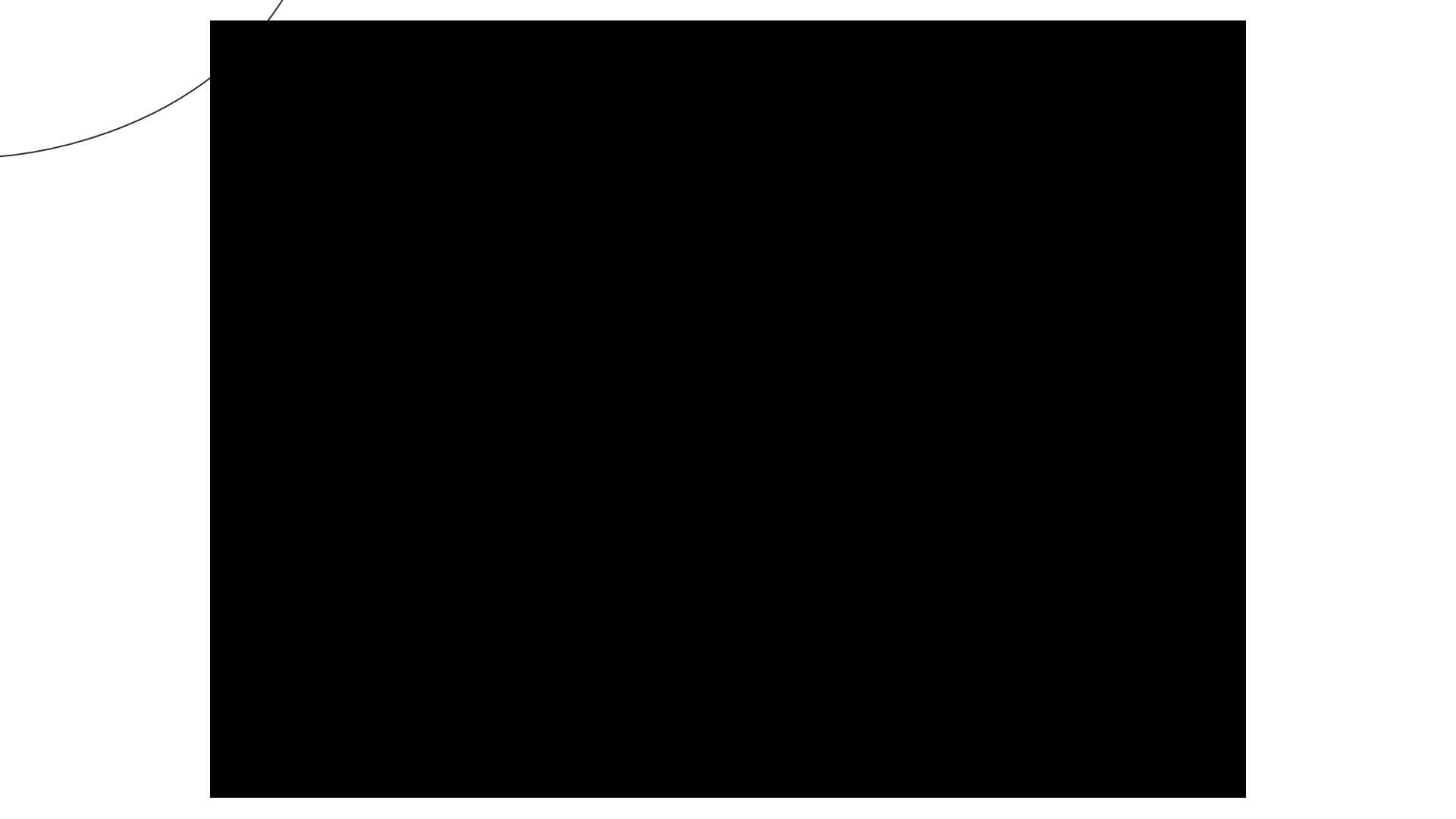


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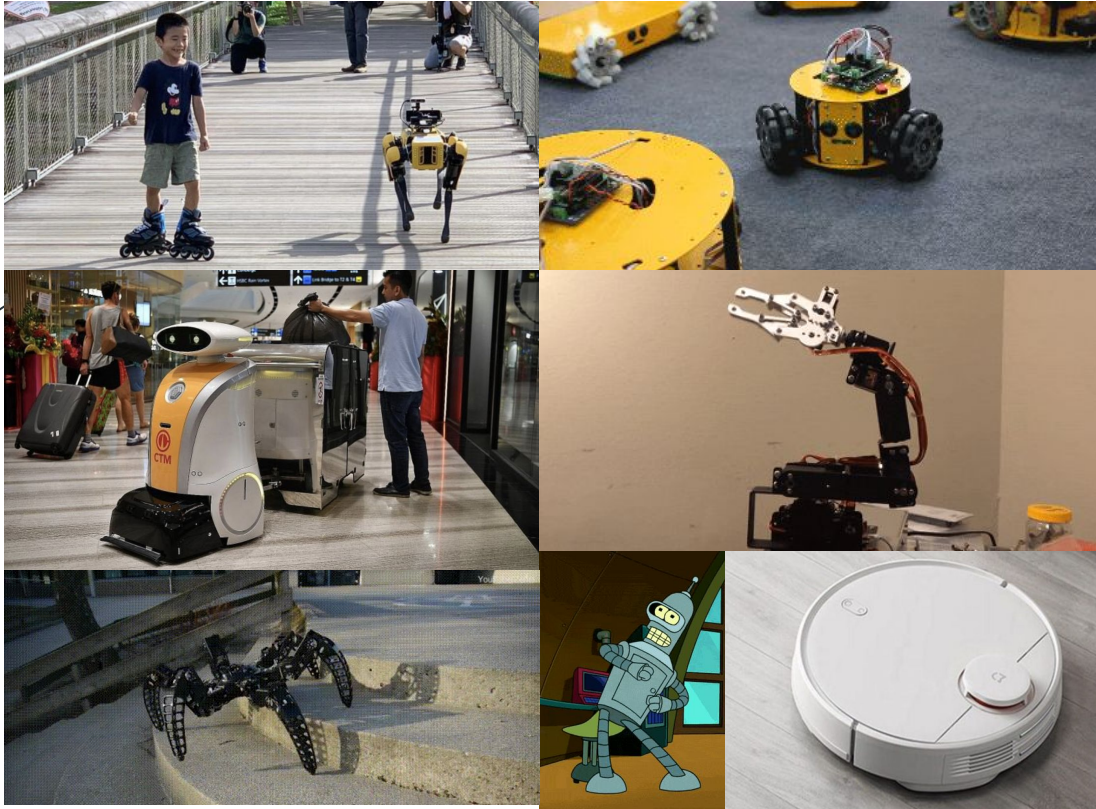
Features of the Topic

Here you could describe the topic of the section

4

Practical Exercise

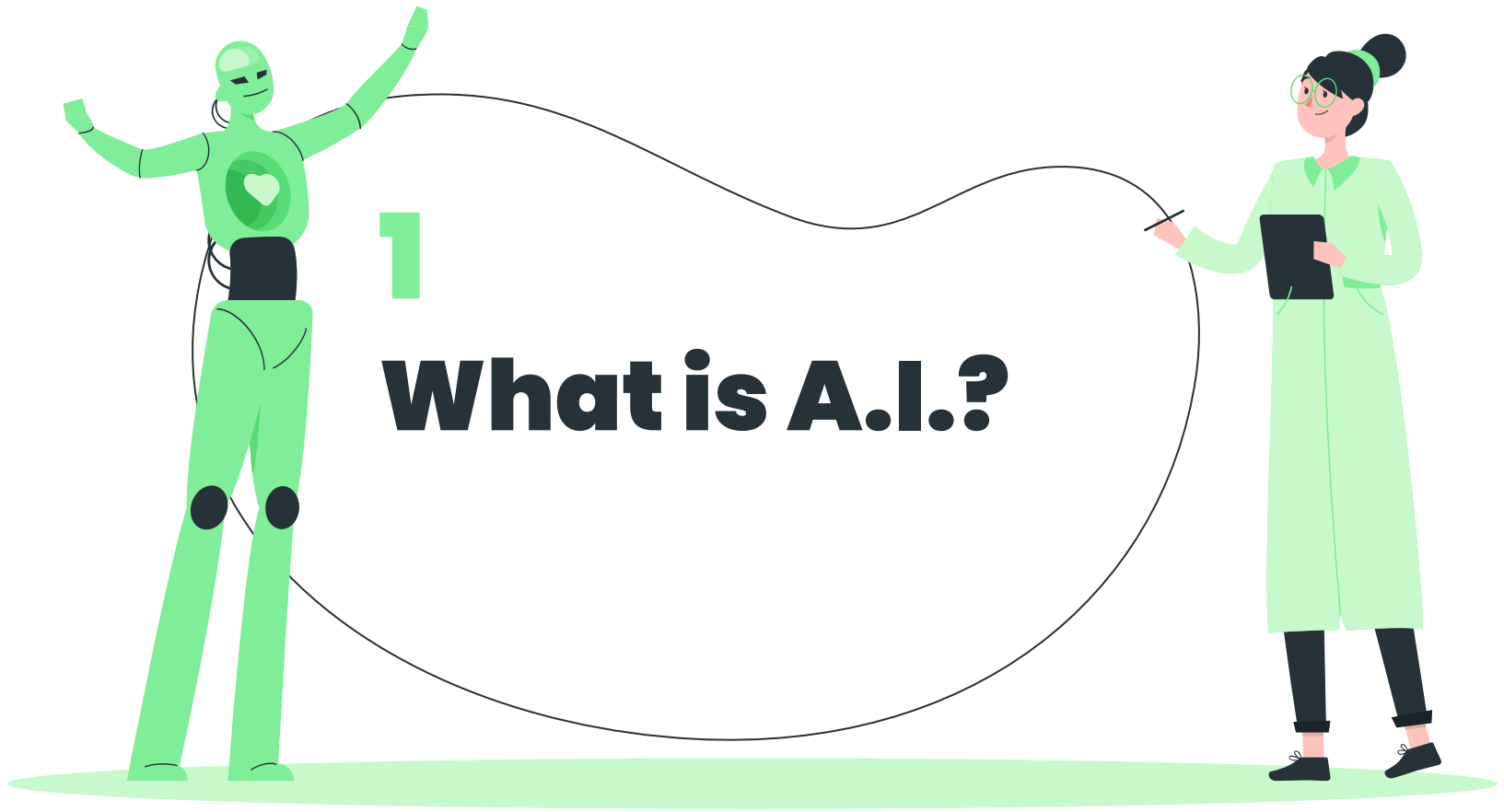
Here you could describe the topic of the section



How do these Robots operate?

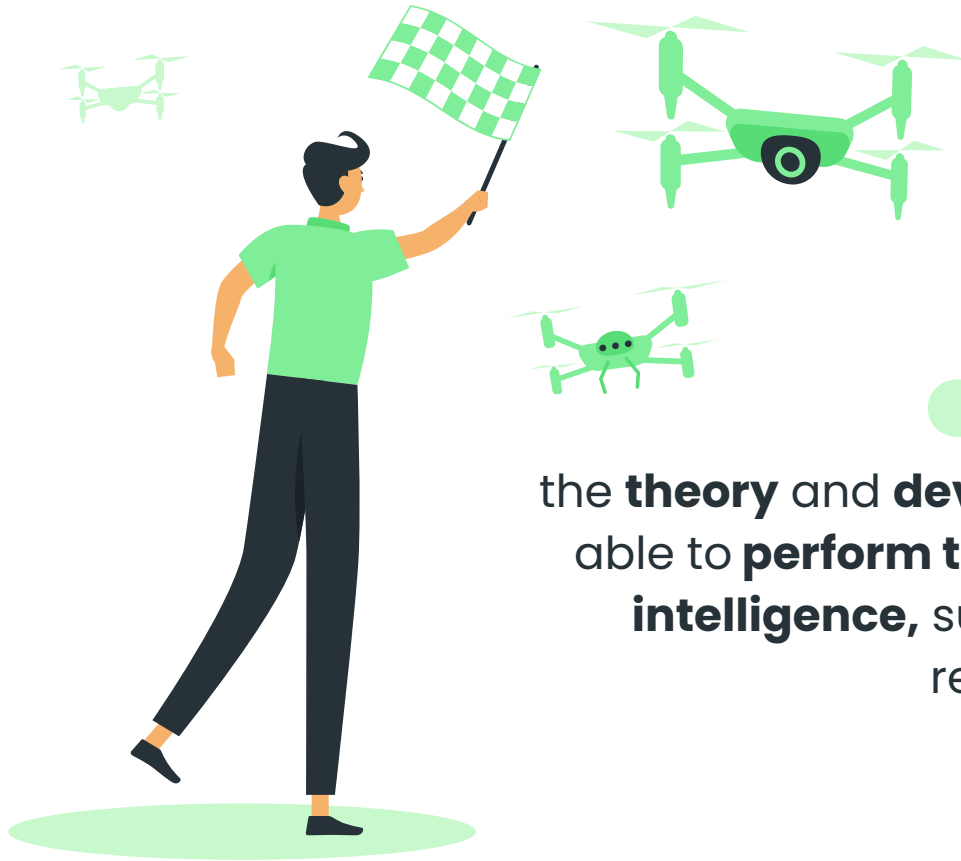
Robots: programmable machines that carry out a series of actions (semi-)autonomously

-> AI vs Robots?



1

What is A.I.?



A.I.

the **theory** and **development** of computer systems able to **perform tasks normally requiring human intelligence**, such as visual perception, speech recognition, and decision-making

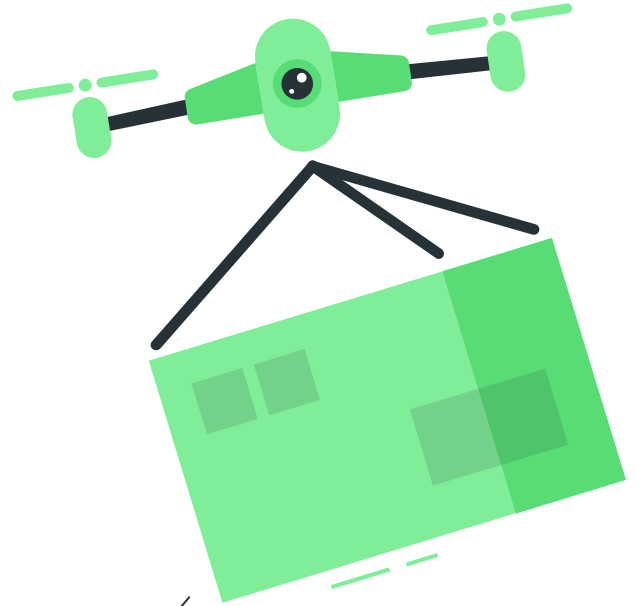
Think!

Do you think that

Robots

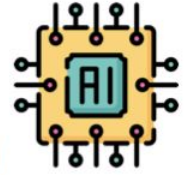
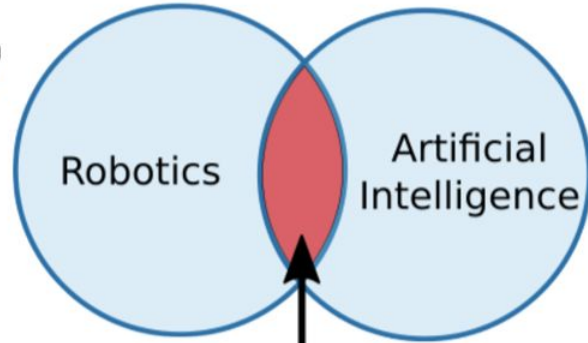
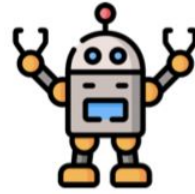
=

Artificial Intelligence (A.I.)?



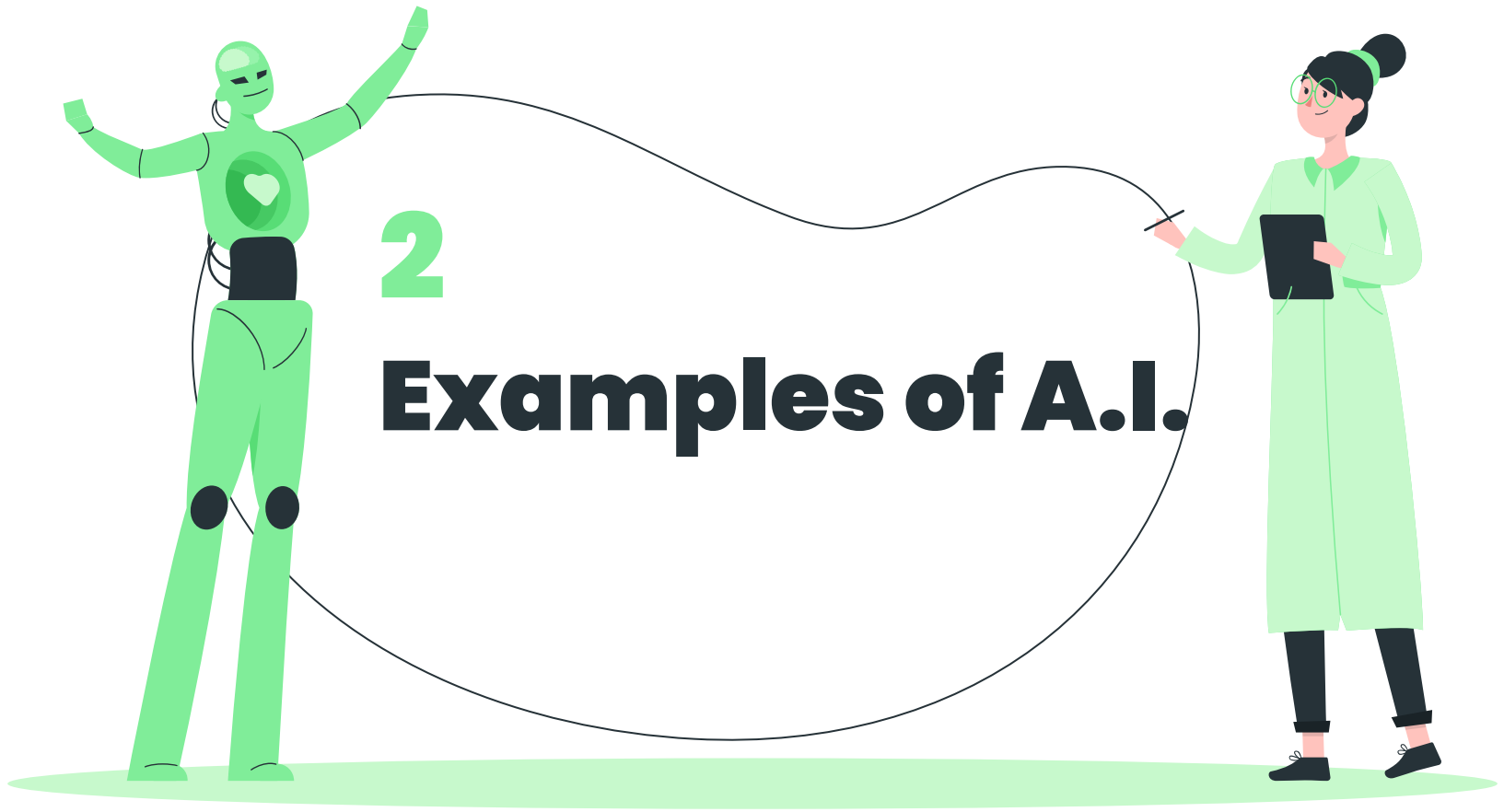
No!

**Robots are not
equivalent to A.I.!**



Artificially
Intelligent
Robots





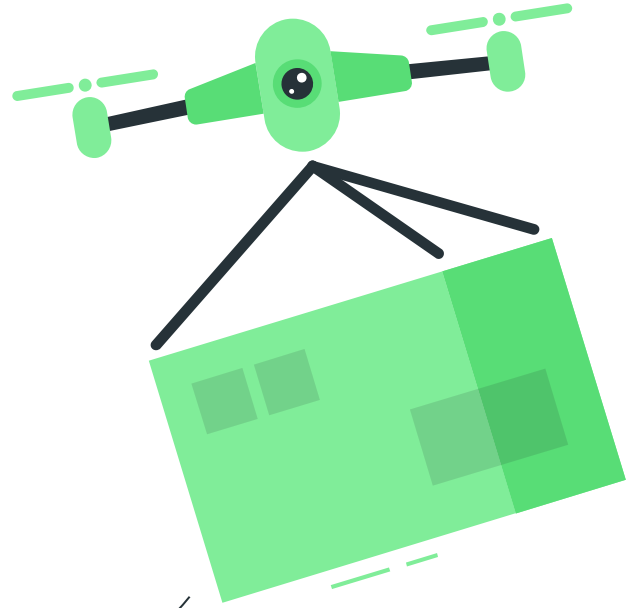
2

Examples of A.I.

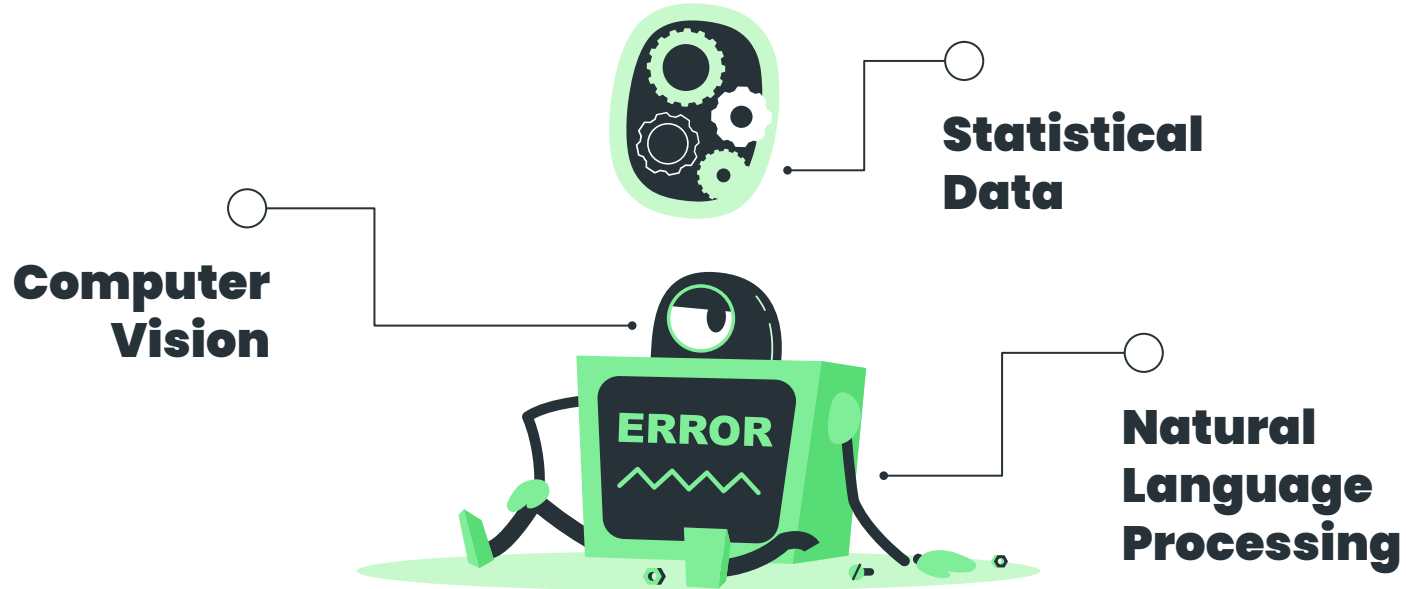
A.I. Around Us

the **technology** that **enables** a **machine** to work **intelligently** and **display** its **ability** to **learn** and **solve** problems on its **own**

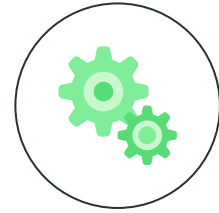
It has been **revolutionizing** **industries** and **economies**



Three domains of AI



Statistical Data (SD)

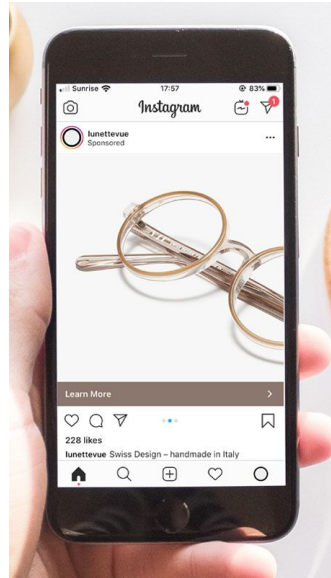


used to find a **typical patterns** in the **set of numbers** provided as the **training data**

These patterns are **further used** to **deduce trends** and **take decisions**.

Examples

1. Netflix Research
2. Personalised Advertisements

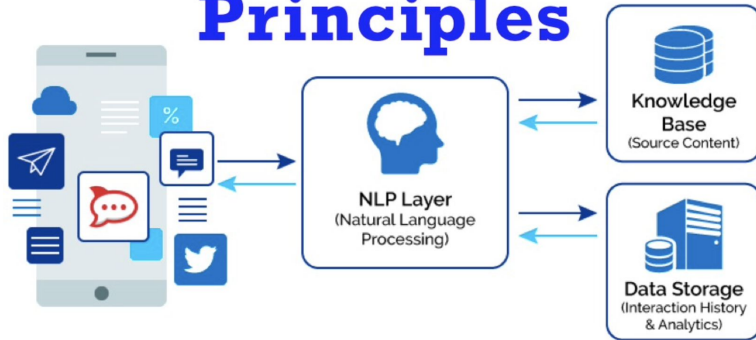


Natural Language Processing (NLP)

the **science** of **enabling machines** to **understand** our **language** and **helping them** to **communicate** as we do

Natural Language

Principles



Examples

Autocorrect Services



Translation Services



Computer Vision (CV)

The **science** of **making machines see**

Applications of **AI** that **fall under** this **domain** work with **visual data** like **images** and **videos**

Examples

1

Image Resolution

Allows images to be clear even with zooming to many times

2

Self-Driving Cars

Allows for such cars to look out for congestions, pedestrians, other vehicles using the road

3

Healthcare and Community Use

Detects if people are wearing masks, etc.





3

Ethics and Biases in A.I.



[Source](#)

But what if AI becomes like Ultron???

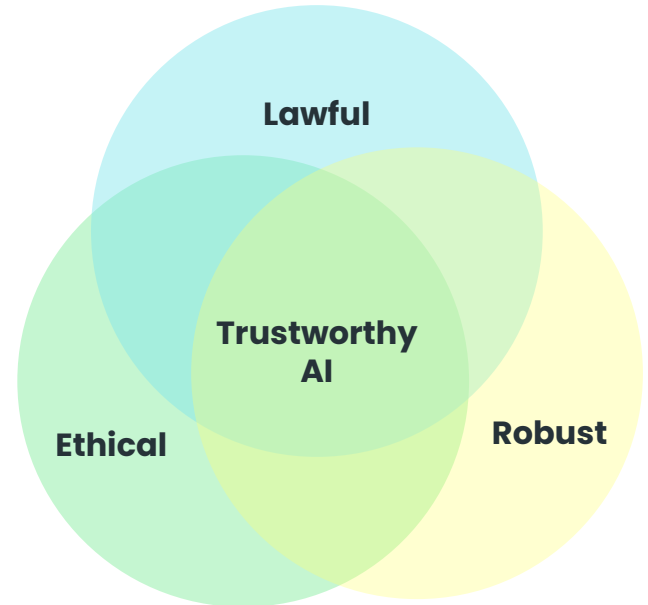
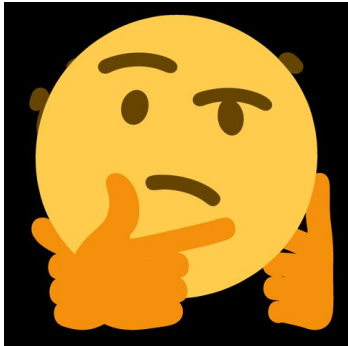
(clearly **NOT** an exaggeration) 😨😨

-> Ethics in AI

Ethics of AI

Ethics -> Based on well-founded standards of right and wrong

These ethics constitute **rights, obligations, benefits to society, fairness, or special virtues**



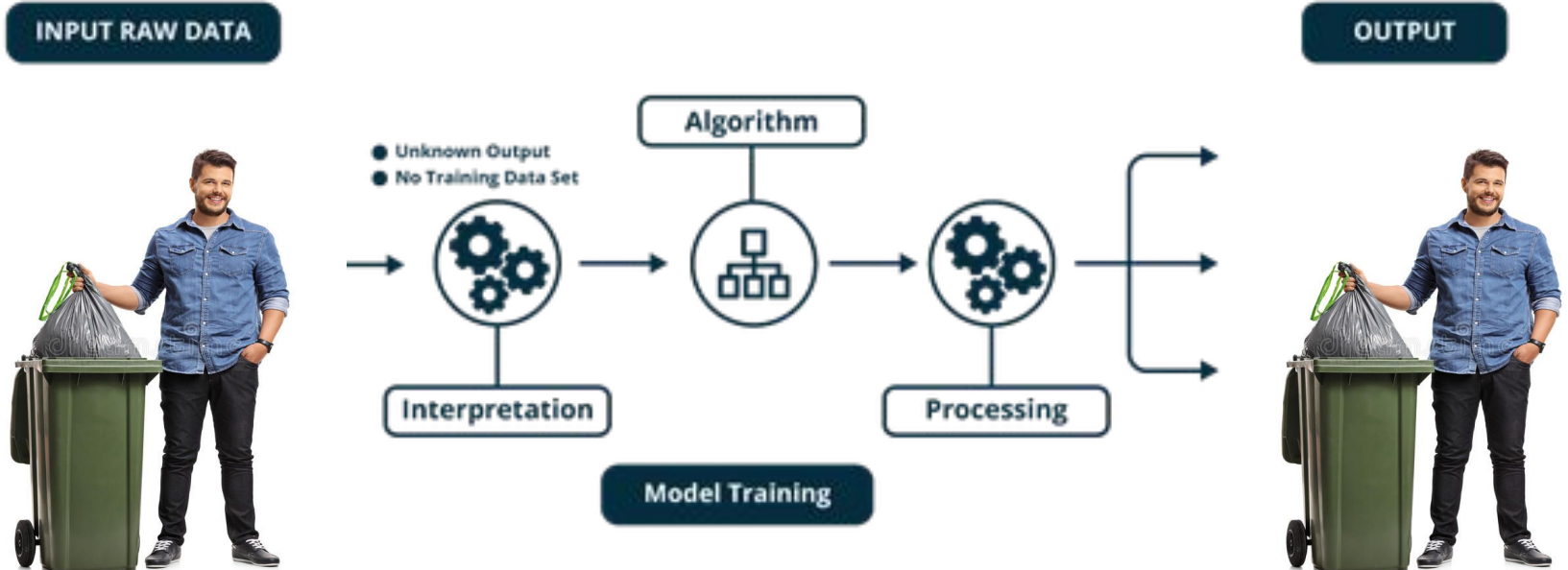
Real problems in AI affecting users daily?

-> Biases in AI



How AI learns

Machines use an initial set of **training data to learn** and produce solutions



Biases of AI

However, biases in AI arise when the **initial training data itself has unintentional human biases**



COOKING

ROLE	VALUE
AGENT	▶ WOMAN
FOOD	▶ PASTA
HEAT	▶ STOVE
TOOL	▶ SPATULA
PLACE	▶ KITCHEN



COOKING

ROLE	VALUE
AGENT	▶ WOMAN
FOOD	▶ FRUIT
HEAT	▶ —
TOOL	▶ KNIFE
PLACE	▶ KITCHEN



COOKING

ROLE	VALUE
AGENT	▶ WOMAN
FOOD	▶ MEAT
HEAT	▶ GRILL
TOOL	▶ TONGS
PLACE	▶ OUTSIDE



COOKING

ROLE	VALUE
AGENT	▶ WOMAN
FOOD	▶ VEGETABLES
HEAT	▶ STOVE
TOOL	▶ TONGS
PLACE	▶ KITCHEN



COOKING

ROLE	VALUE
AGENT	▶ MAN
FOOD	▶ —
HEAT	▶ STOVE
TOOL	▶ SPATULA
PLACE	▶ KITCHEN

Example of AI image recognition, which a visual semantic role labeling system has learn to identify a person cooking as female due to bias in the initial data

Concern

- A.I. biases are a serious concern
- Affects many other more impactful applications
 - Social: Social manipulation via social media
 - Financial: A.I. algorithms that trade stocks
 - Political: Deep fakes of politicians





4

SG & AI?

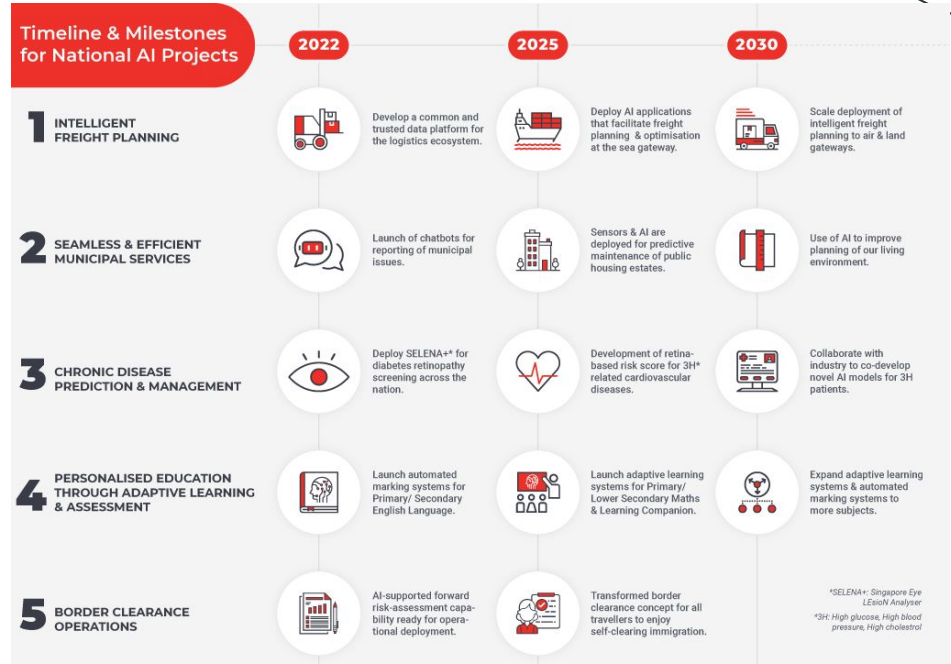
SG & AI?

- Singapore plans to lead in developing and deploying impactful AI solutions that is relevant to Singapore citizens and businesses by 2030.

Source

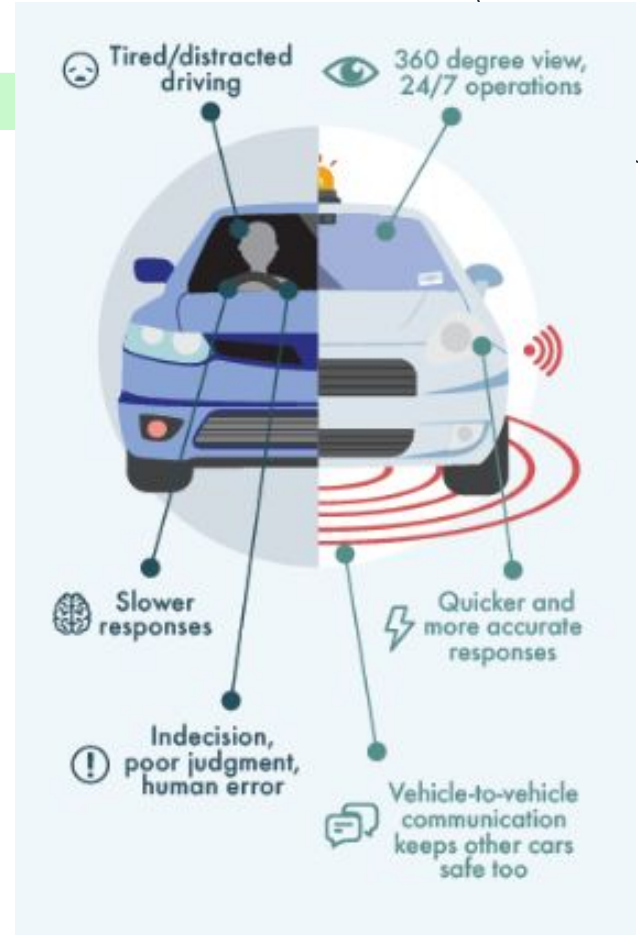
- A \$700,000 international competition was organised by AI Singapore (AISG) to identify deepfakes from genuine content last year.

Source



Autonomous Cars

- Less Accidents due to Human Errors
- Optimal Use of Road Space
- Creation of New Job Roles
 - Remote fleet controllers
 - Technicians
 - Engineers
 - Data scientists.



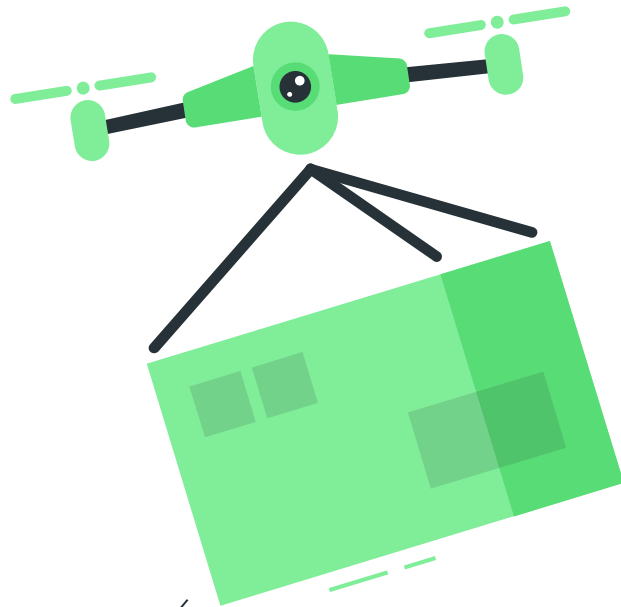
Now,

Do you think that

Robots

=

Artificial Intelligence (A.I.)?



Summarised!

AI \neq Robots

AI \neq Machine learning

AI \rightarrow Computer Vision, Statistical data, Natural Language processing

Ethics behind AI \rightarrow to prevent bias arising from the AI



Thank you!

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- A **thanks** slide, which you must keep so that proper credits for our design are given.
- A **resources** slide, where you'll find links to all the elements used in the template.
- **Instructions for use.**
- Final slides with:
 - The **fonts and colors** used in the template.
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Here you could describe the topic of the section

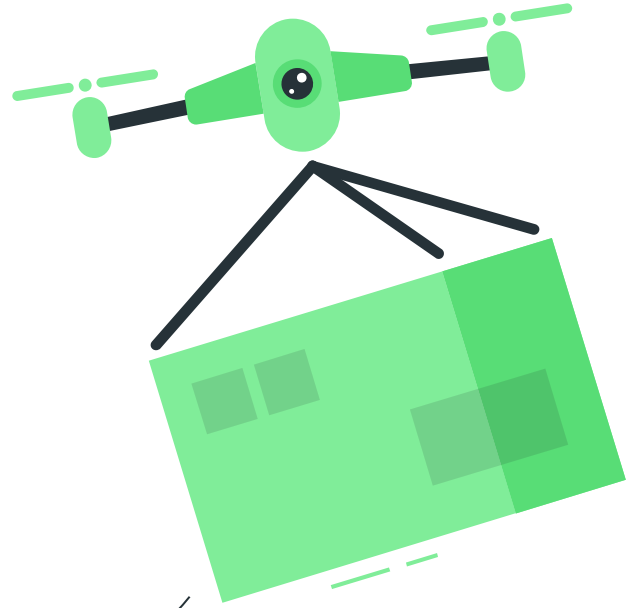
4

Practical Exercise

Here you could describe the topic of the section

Introduction

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



About The Theory

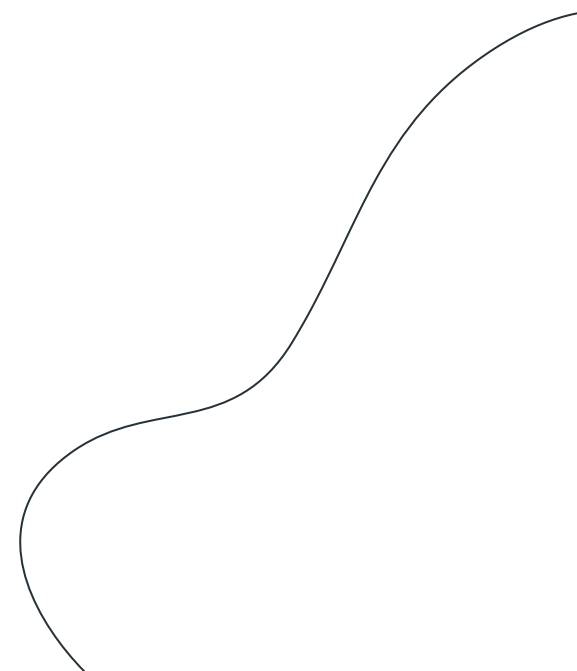


Do you know what helps you make your point clear?

Lists like this one:

- They're simple
- You can organize your ideas clearly
- You'll never forget to buy milk!

The audience won't miss the point of your presentation

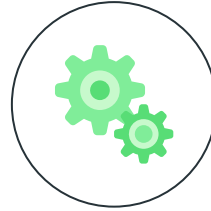


Concepts



Concept 1

Mercury is the closest planet from the Sun and the smallest one



Concept 2

Venus has a beautiful name and is the second planet from the Sun

What Is This Topic About?

1

Mercury

Mercury is the closest planet to the Sun and the smallest one

2

Venus

Venus has a beautiful name and is the second from the Sun

3

Mars

Despite being red, Mars is a cold place. It's full of iron oxide

Features Of The Topic



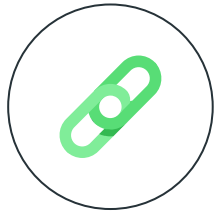
Mars

Despite being red, Mars is actually a cold place



Mercury

Mercury is the closest planet and the smallest



Jupiter

Jupiter is a gas giant and the biggest planet

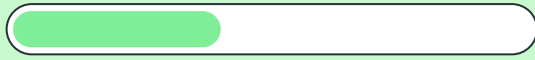


Saturn

Saturn is composed of hydrogen and helium

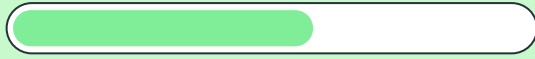
Examples

35%



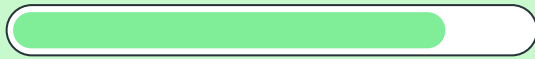
Venus has a beautiful name

65%



Mars is a very cold place

85%



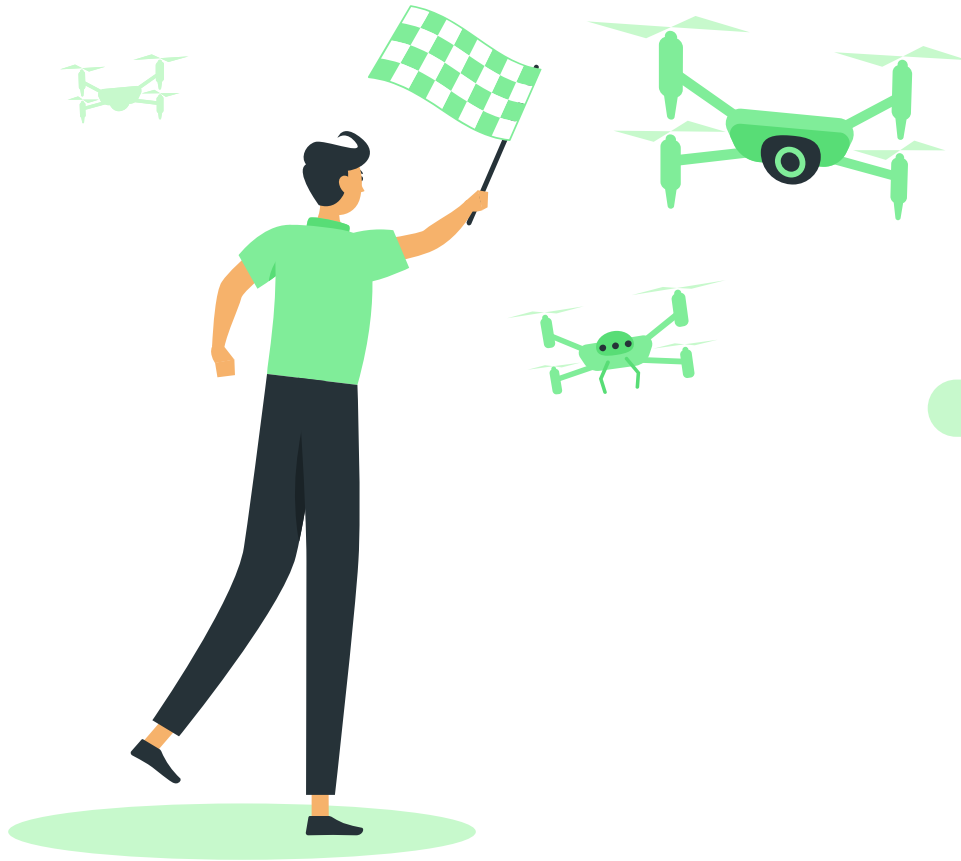
Jupiter is the biggest planet

50%



Mercury is the closest planet





453,00

Big numbers catch your
audience's attention

Recommendations

Mercury

Mercury is the closest planet to the Sun

Venus

Venus is the second planet to the Sun

Mars

Despite being red, Mars is a cold place

Jupiter

It's a gas giant and the biggest planet

Saturn

Saturn is the ringed one and a gas giant

Neptune

Neptune is the farthest planet from the Sun

Share Your Practice

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





**A Picture Is Worth A
Thousands Words**



**Awesome
Words**

Location Of Robots



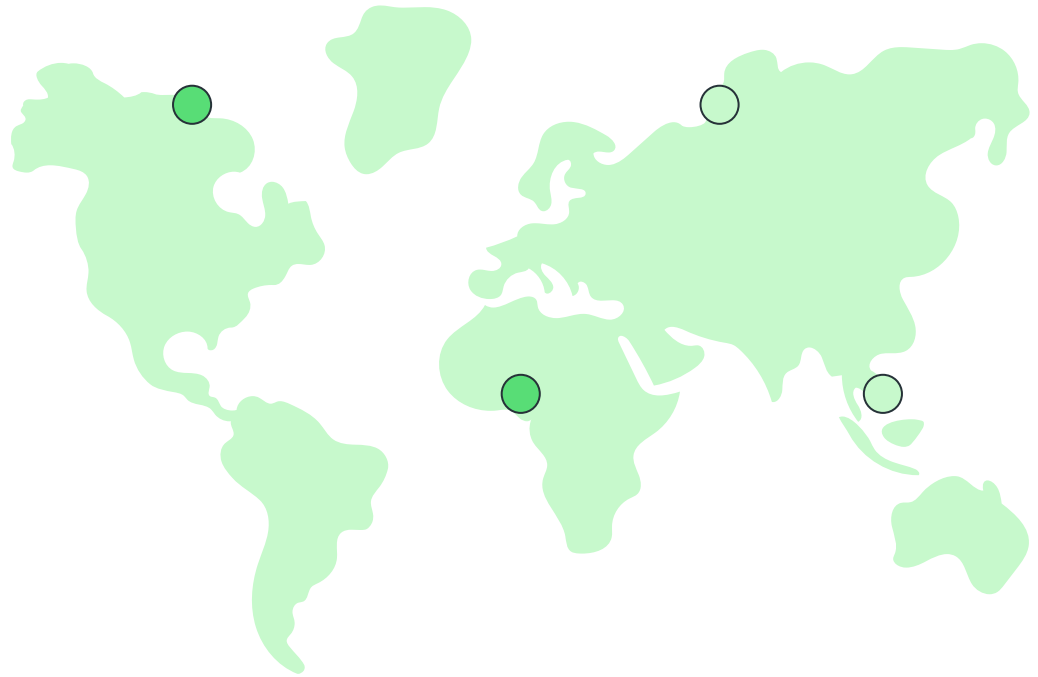
Mercury

Mercury is the closest planet to the Sun



Jupiter

It's a gas giant and the biggest planet

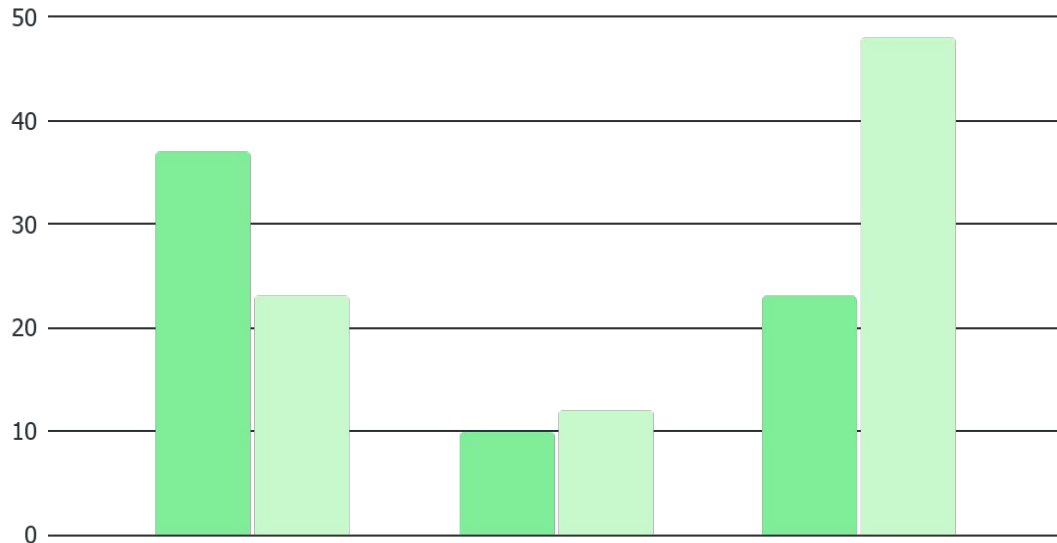


Robot Parts Table

	Mass	Diameter	Surface
Mercury	0.06	0.38	0.38
Mars	0.11	0.53	0.38
Saturn	95.2	9.4	1.16

Performance Graphic

To modify this graph, click on it, follow the link, change the data and paste the resulting graph here, replacing this one



Mercury

Mercury is the closest planet to the Sun



Jupiter

It's a gas giant and the biggest planet

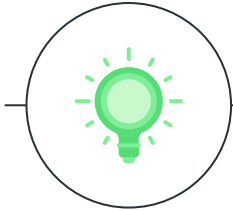
Anatomy Of The Error



Project Timeline

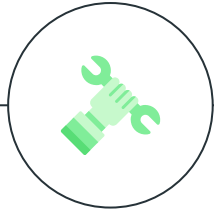
Day 1

Mercury is the closest planet to the Sun



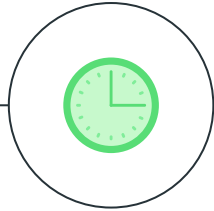
Day 2

It's a gas giant and the biggest planet



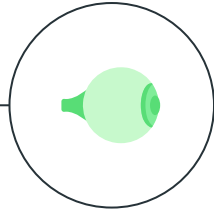
Day 3

Saturn is the ringed one and a gas giant



Day 4

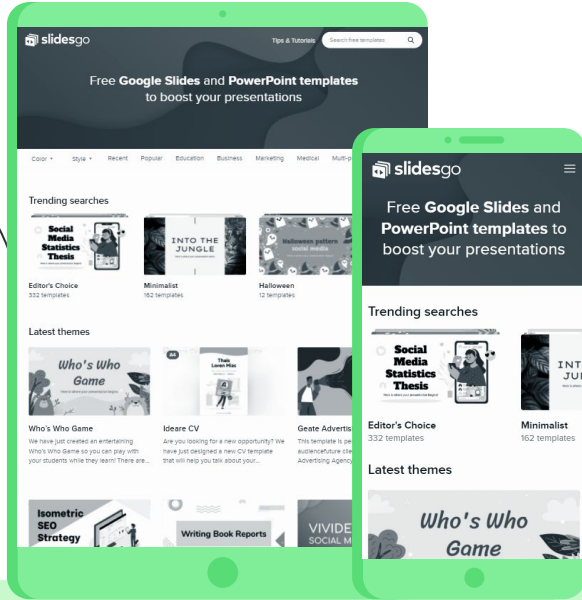
Venus is the second planet to the Sun



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- Oops 404 error with a broken robot
- Devices
- Android
- Operating system
- 504 error gateway timeout

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Pana



Amico



Bro

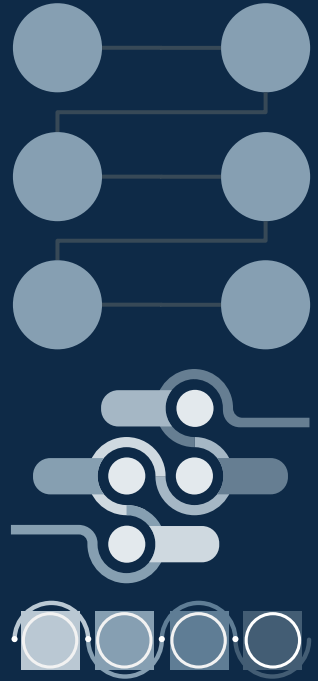
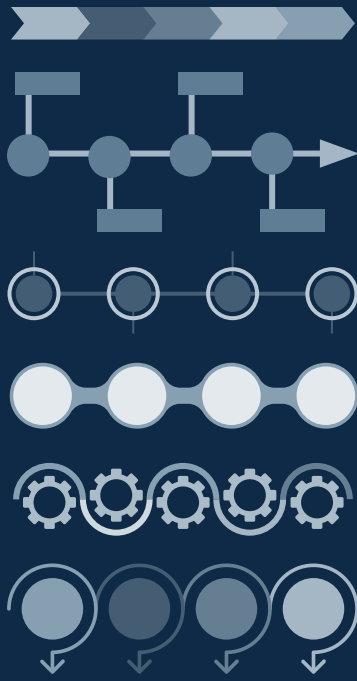
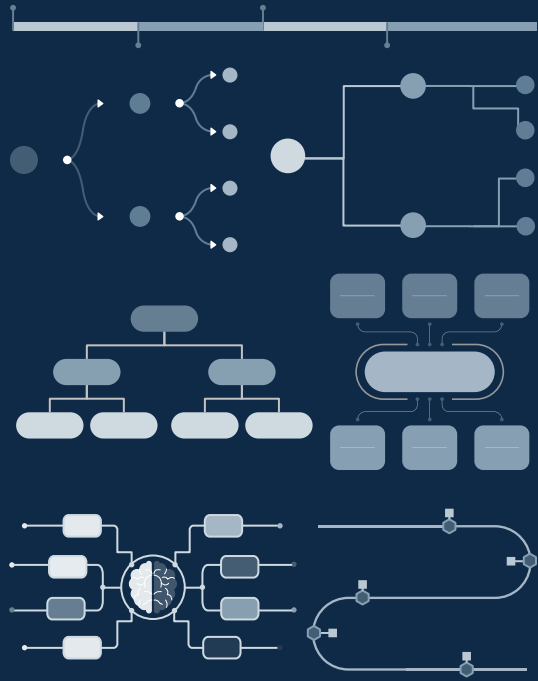


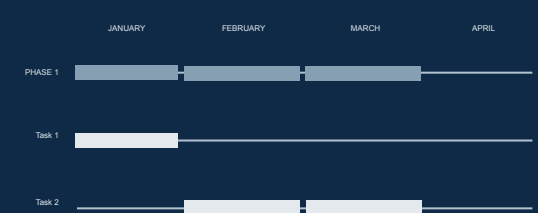
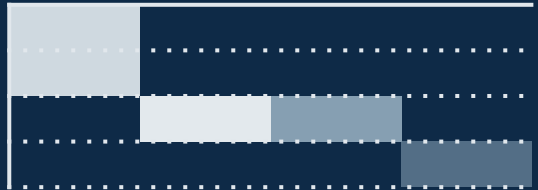
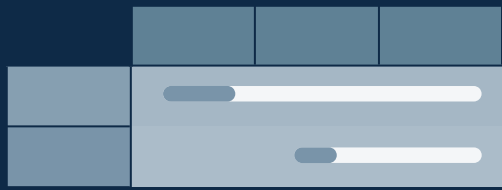
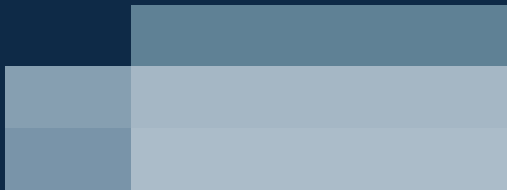
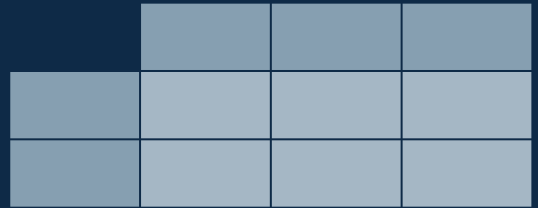
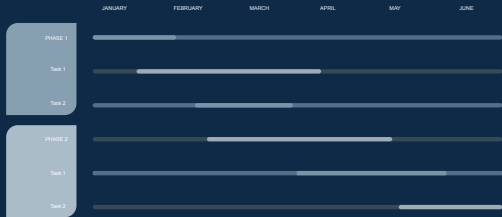
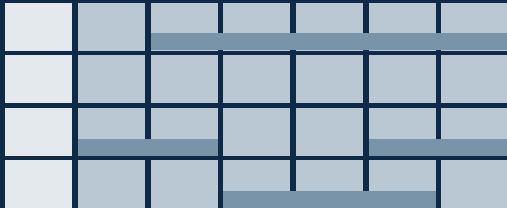
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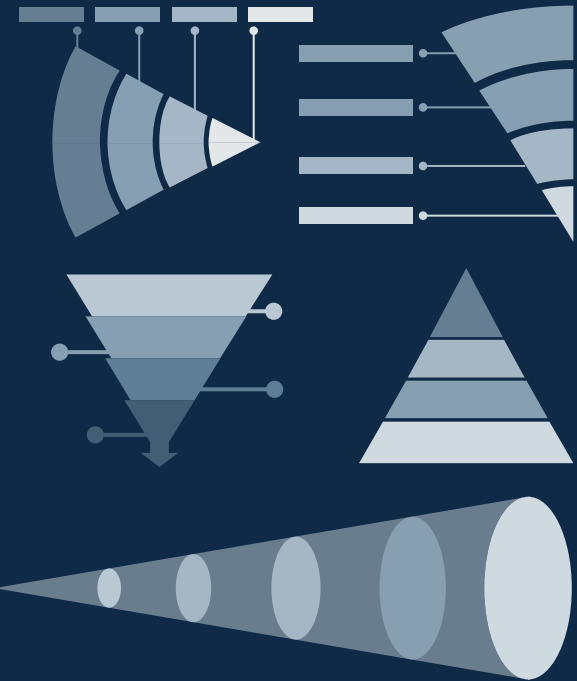
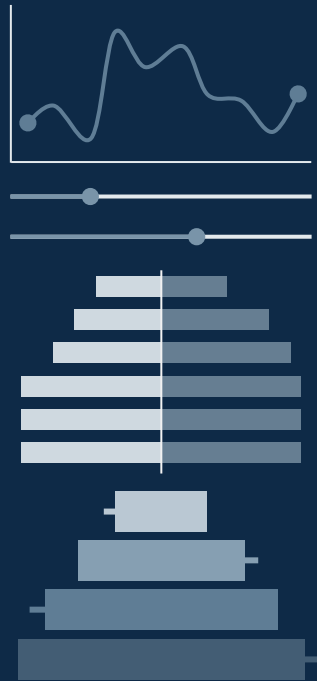
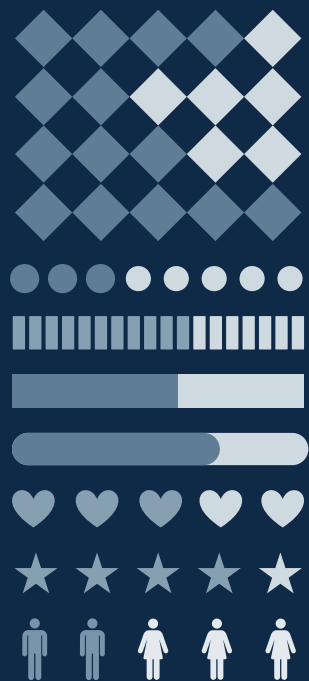
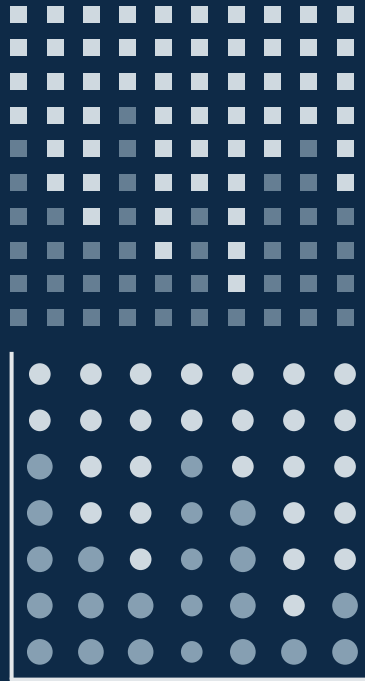
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