

Plant Disease Detection

Kacey Clougher

Key Statistics

- 20% to 40% CYL (Crop Yield Loss) annually
- \$220 Billion Profit Loss annually

Example: Early Blight (Alternaria Solani)



Cotton Leaf (*Gossypium*): Healthy vs. Infected with Early Blight

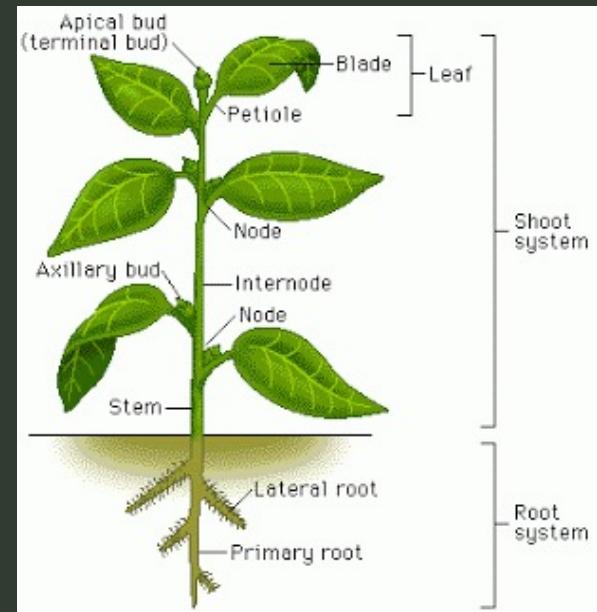
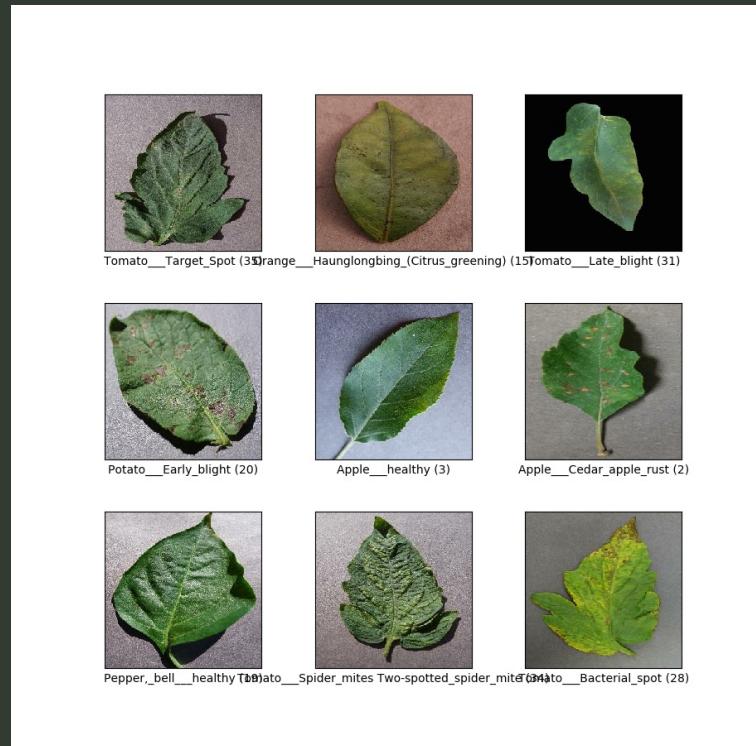


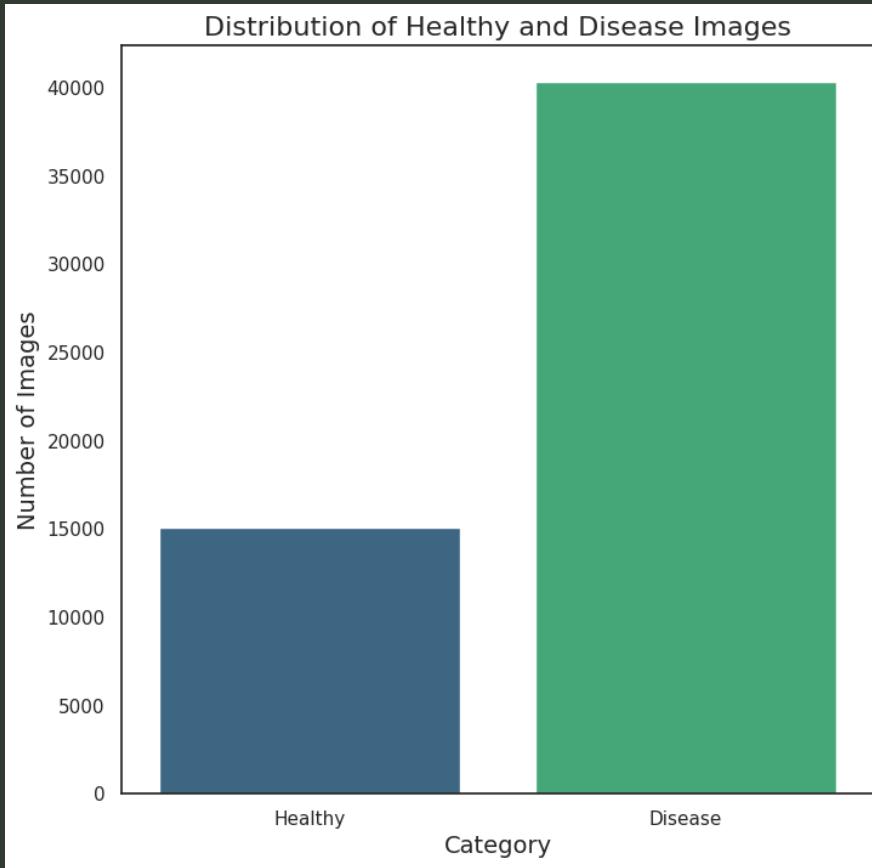
Diagram of Celery Plant (*Apium graveolens*)

The Data



Original image repository provided by Cornell University

Distribution



CNN Model Results

Model Accuracy: 95%



Use Cases



Early Disease Detection



Precision Agriculture

Steam-lined Plant
Health Monitoring



Insurance Claims



Next Steps



Identify by Disease



Mobile App



Thanks!

Do you have any questions?

Kacey Clougher
[Email](#) | [Github](#) | [LinkedIn](#)

Plant Disease Detection
Project Github



Model Development

Reviewing concepts is a good idea



Mars

Mars is actually a very cold planet



Venus

Venus has extremely high temperatures



Neptune

Neptune is a very small planet



Mercury

Mercury is the closest planet to the Sun



Saturn

Saturn is a gas giant with several rings



Jupiter

Jupiter is the biggest planet of them all



Awesome words

Thanks!

Do you have any questions?

Email: kaceyclougher@gmail.com



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Thank you!

A picture always reinforces the concept

Images reveal large amounts of data, so
remember: use an image instead of a long text.
Your audience will appreciate it



4,498,300,000

Big numbers catch your audience's attention

9h 55m 23s

Jupiter's rotation period

333,000

The Sun's mass compared to Earth's

386,000 km

Distance between Earth and the Moon

Let's use some percentages



Mercury

Mercury is the closest planet to the Sun and a very small object



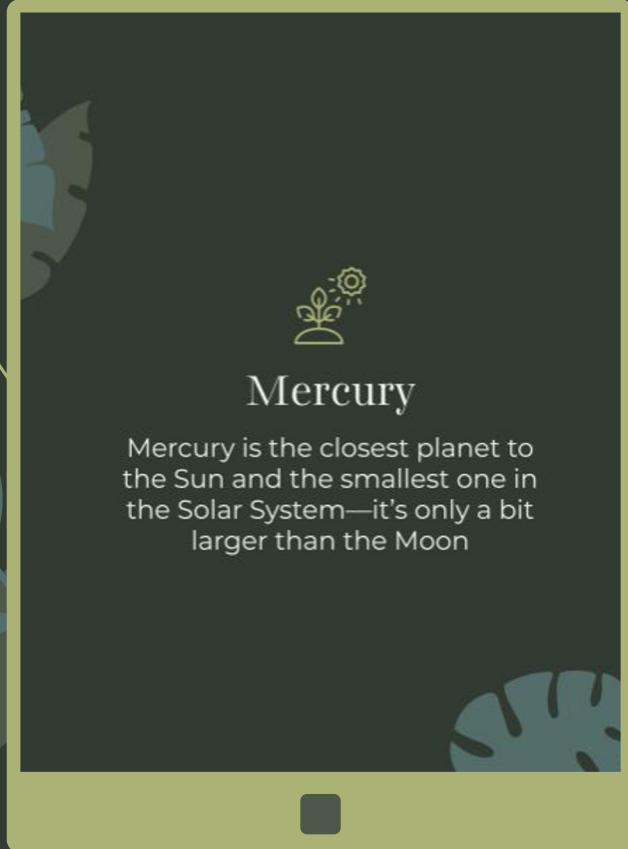
Venus

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



Mars

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



Tablet mockup

You can replace the image on the screen with your own work. Just right-click on it and select “Replace image”

World biggest greenhouse



Venus

Venus is the second planet from the Sun.
This planet has a beautiful name



Mercury is a very
small planet

Understandable infographics

Mars

Mars is actually a very cold planet

Mercury

Mercury is the closest planet to the Sun

Venus

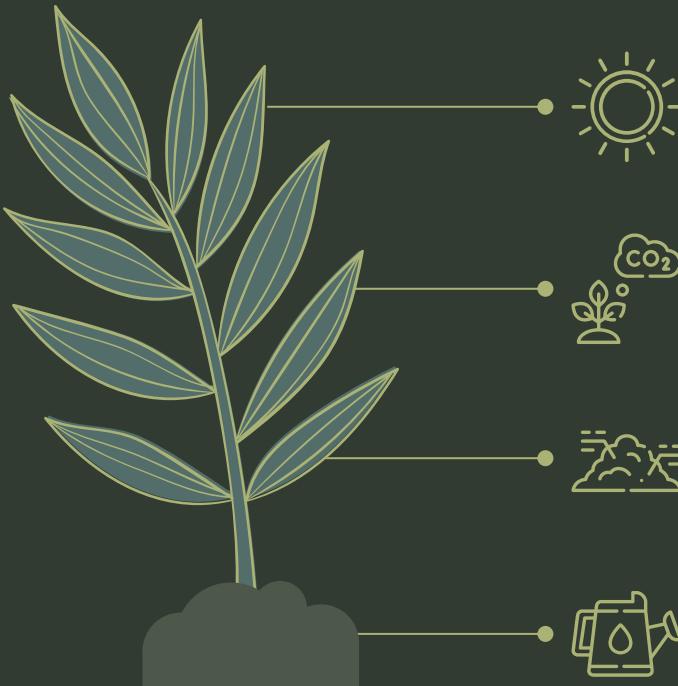
Venus has extremely high temperatures

Saturn

Saturn is a gas giant and has several rings



Photosynthesis



Mars

Mars is actually a very cold planet

Mercury

Mercury is the closest planet to the Sun

Venus

Venus has extremely high temperatures

Saturn

Saturn is a gas giant and has several rings

History of photosynthesis

Venus is the second planet from the Sun

Despite being red, Mars is a very cold planet

Venus

1643

Mars

1888

1778

1950

Mercury

Mercury is the closest planet to the Sun

Jupiter

Jupiter is the biggest planet of them all

Essential functionalities

Plants functionality

- Photosynthesis

Mars is actually a very cold planet

- Absorption

Mercury is the closest planet to the Sun

- Transpiration

Saturn is a gas giant and has several rings

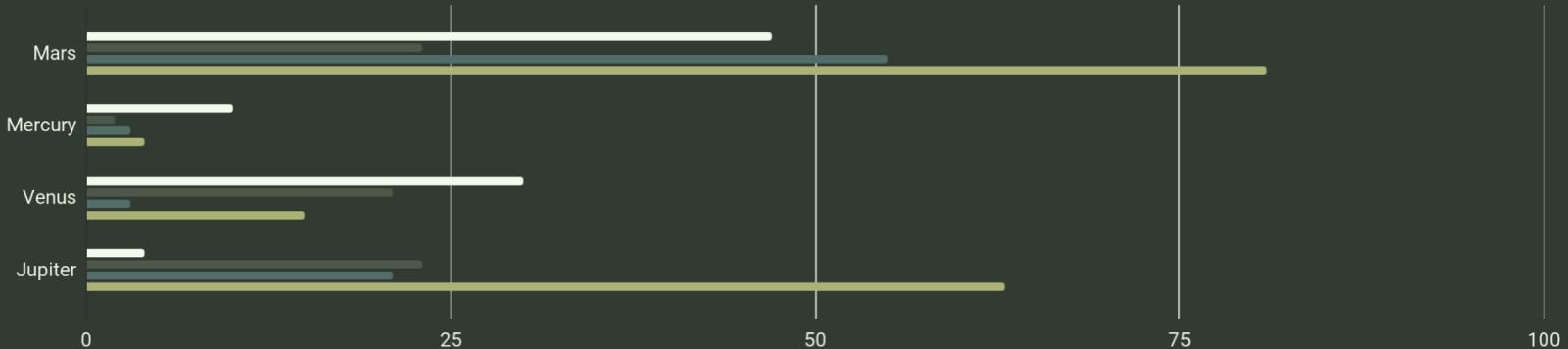
- Reproduction

Jupiter is the biggest planet of them all

Tables represent your data in a clear way

	Mass (earths)	Diameter (earths)	Surface gravity (earths)
Mercury	0.06	0.38	0.38
Mars	0.11	0.53	0.38
Saturn	95.2	9.4	1.16

You can use this graph



Mercury

Mercury is quite a
small planet

Venus

Venus has very
high temperatures

Jupiter

Jupiter is an
enormous planet

Mars

Mars is a very cold
planet, not hot

Follow the link in the graph to modify its data and then paste the new one here. [For more info, click here](#)

Pie chart

20%

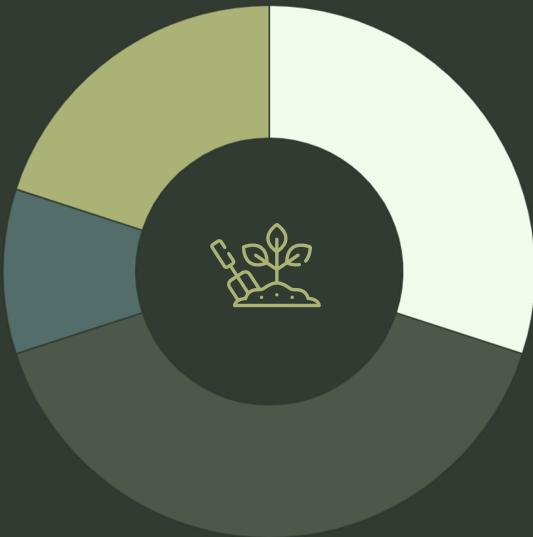
Mercury

Mercury is quite a small planet

10%

Venus

Venus has very high temperatures



30%

Jupiter

Jupiter is an enormous planet

40%

Saturn

Saturn is a gas giant with rings

Follow the link in the graph to modify its data and then paste the new one here. [For more info, click here](#)

Take care of your plants

Basic care

Neptune is very far away from the Sun

The Sun is the center of the Solar System

Venus is the second planet from the Sun

Indoor plants

Saturn is composed of hydrogen and helium

Earth is the planet on which we all live

Jupiter is the biggest planet of them all

Outdoor plants

Venus is a planet that has a beautiful name

Ceres is located in the main asteroid belt

Pluto is considered a dwarf planet

Fun facts

Plant memory

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



Root length

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

Seed strategies

Strategy 1

Mercury is the smallest of them all

Strategy 2

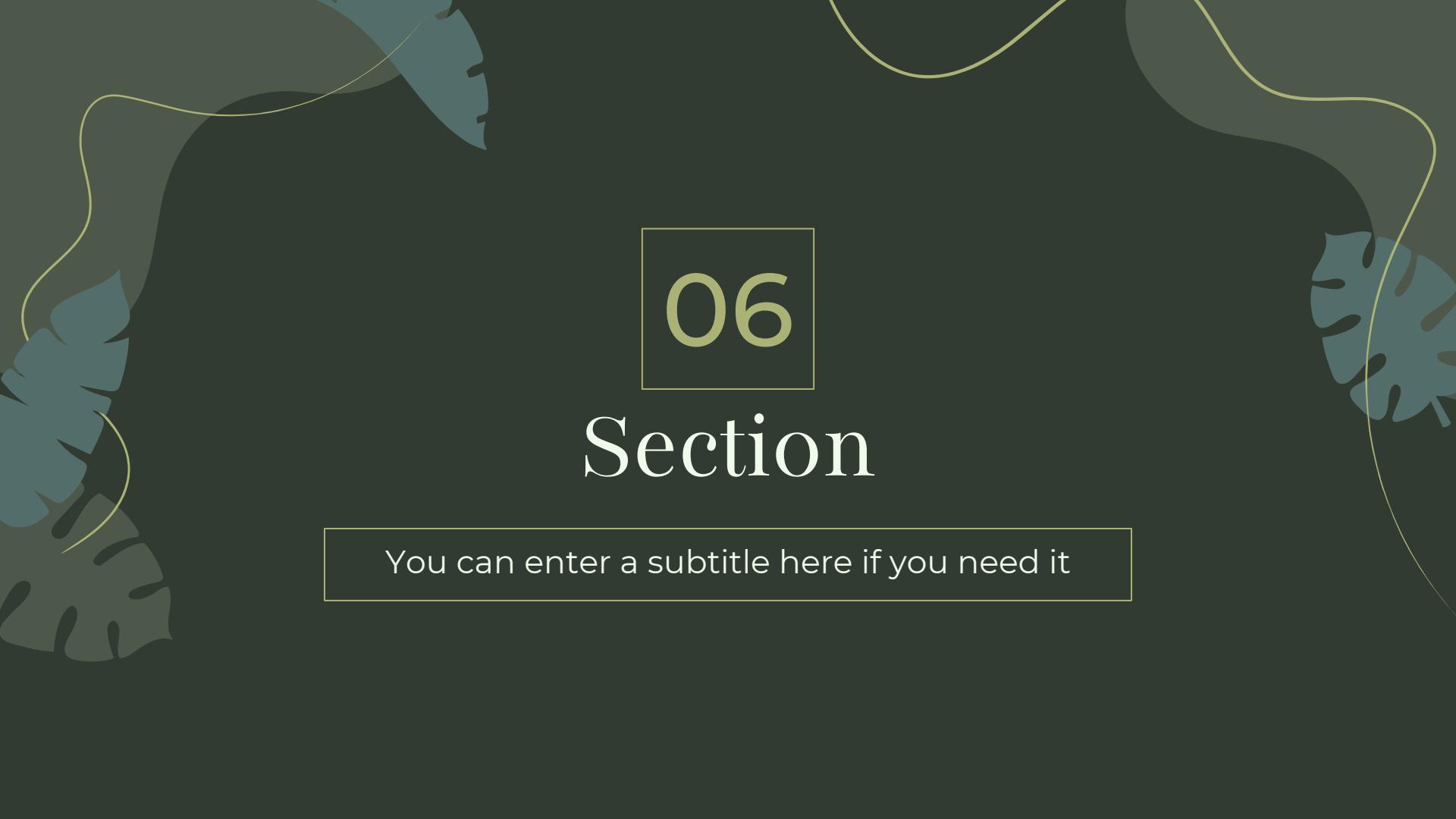
Venus is a planet with a beautiful name

Strategy 3

Mars it's full of iron oxide dust

Strategy 4

Saturn is a gas giant with several rings



The background features a dark teal gradient with light green organic line art. A large, stylized profile of a person's head is visible on the left, and a monstera leaf pattern is on the right. The central title area has a dark teal rounded rectangle with a thin white border. The number '06' is centered within this box in a large, bold, white serif font.

06

Section

You can enter a subtitle here if you need it

Our team



Sofia Hill

You can speak a bit about
this person here

Kyle Harris

You can speak a bit about
this person here



Links of interest



Websites

- Venus is the second planet from the Sun
- Mercury is the closest planet to the Sun
- Despite being red, Mars is actually cold



Youtube

- Venus is the second planet from the Sun
- Mercury is the closest planet to the Sun
- Despite being red, Mars is actually cold

ICON PACK



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Vectors:

- [Flat tropical leaves background](#)



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- [Hand drawn tropical leaves background](#)

Photos

- [Elegant arrangement vases with plants](#)
- [Front view growing plants](#)
- [Smiley male researcher laboratory using microscope](#)
- [Smiley female researcher laboratory using microscope](#)

Icons

- [Icon Pack: Plants Growing | Lineal](#)

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Bro



Rafiki



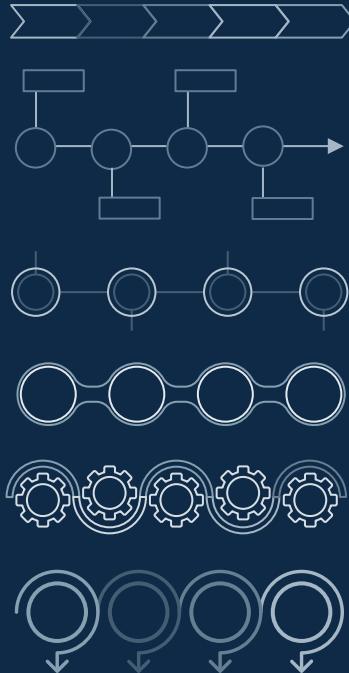
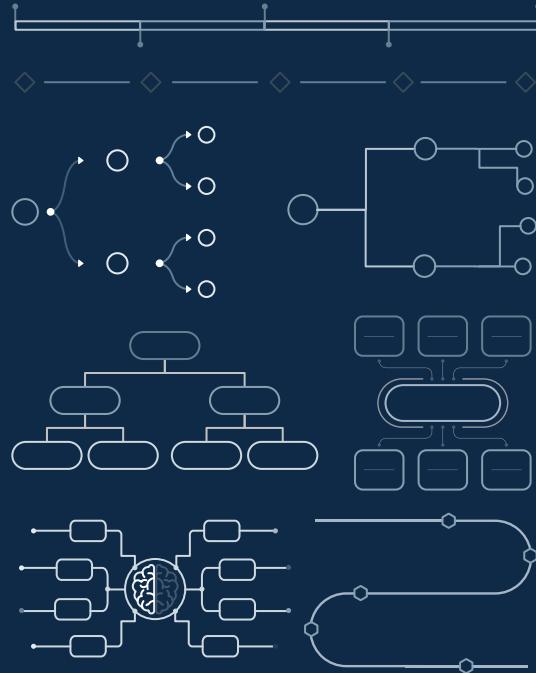
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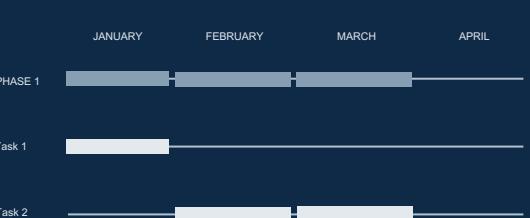
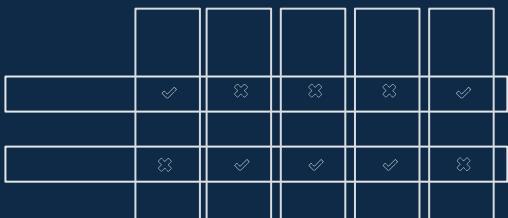
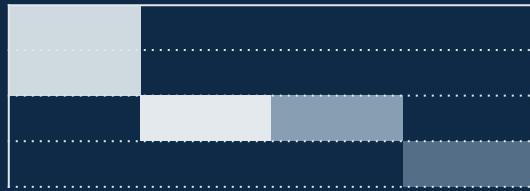
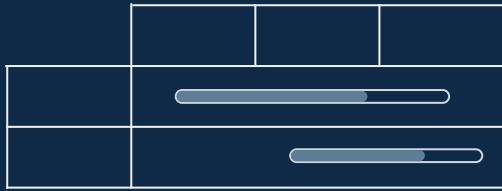
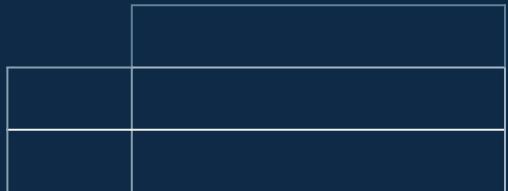
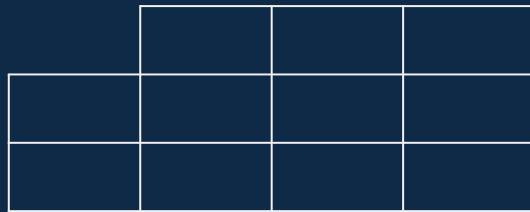
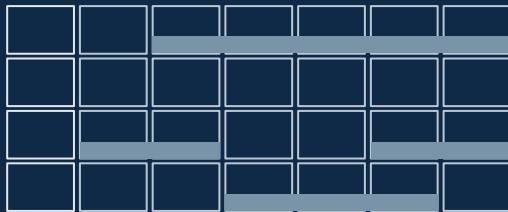
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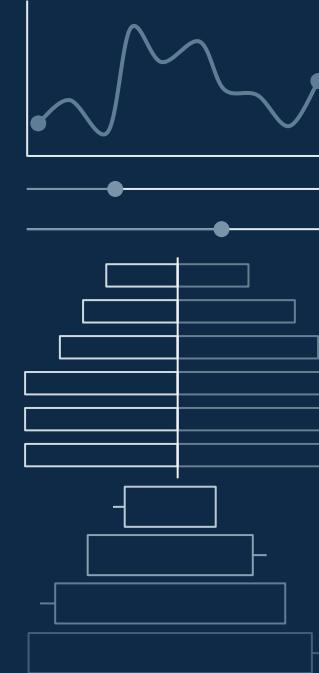
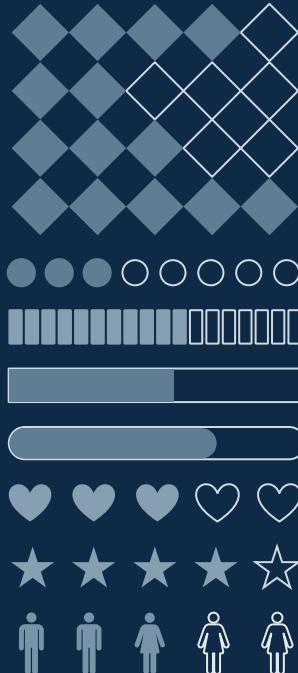
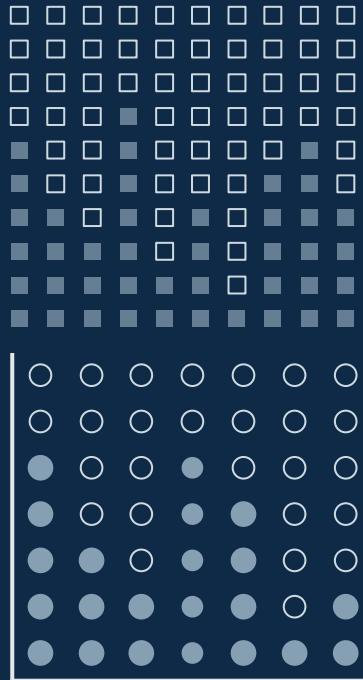












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