

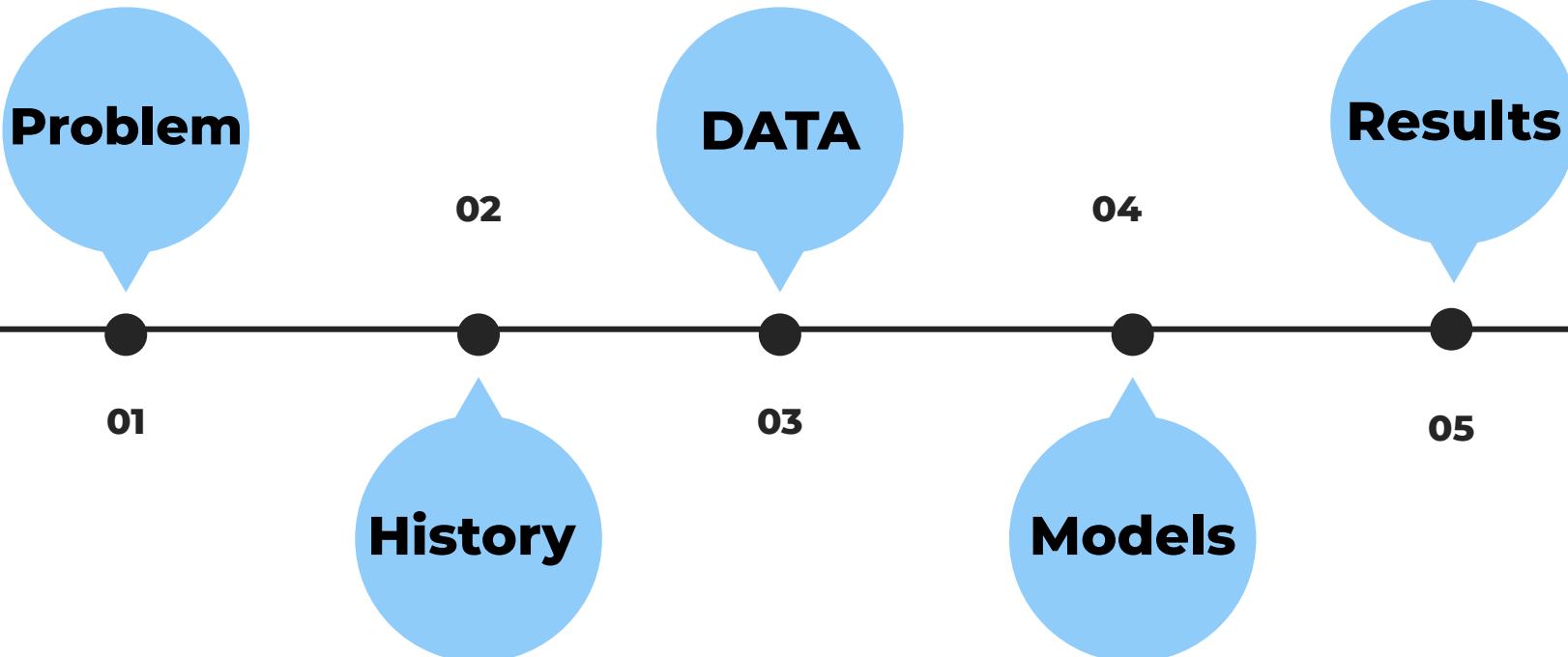
Clint Hoke
DSIR 420
Capstone

PREDICTING
WALT DISNEY WORLD®
WAIT TIMES





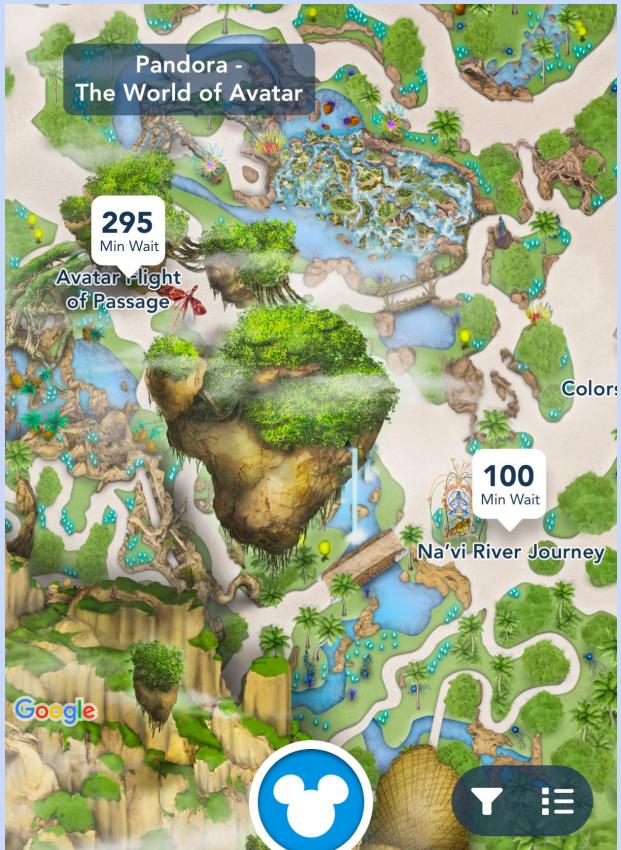
Table of Contents



58,300,000

Guests attended **Walt Disney World** theme parks in **2018**

Waiting.....



3:20 LTE

Wait Times

Filters (1)

Hide List

- Meet Ariel at Her Grotto
Magic Kingdom Park
50 Minute Wait
- Under the Sea ~ Journey of The Little Mermaid
Magic Kingdom Park
50 Minute Wait
- Buzz Lightyear's Space Ranger Spin
Magic Kingdom Park
55 Minute Wait
- Astro Orbiter
Magic Kingdom Park
60 Minute Wait
- The Barnstormer
Magic Kingdom Park
60 Minute Wait
- Big Thunder Mountain Railroad
Magic Kingdom Park
60 Minute Wait
- Jungle Cruise
Magic Kingdom Park
60 Minute Wait

Filter

Wait Times

Hide List

- Magic Kingdom Park
100 Minute Wait
- Na'vi River Journey
Disney's Animal Kingdom Theme Park
110 Minute Wait
- Slinky Dog Dash
Disney's Hollywood Studios
125 Minute Wait
- Avatar Flight of Passage
Disney's Animal Kingdom Theme Park
145 Minute Wait
- Jungle Cruise
Magic Kingdom Park
145 Minute Wait
- Space Mountain
Magic Kingdom Park
155 Minute Wait
- Seven Dwarfs Mine Train
Magic Kingdom Park
195 Minute Wait

Home

Search

More

Data Source



touringplans.com

**Released data sets for
14 of the major
attractions of Disney
World**

The image shows a tablet displaying the touringplans.com website. The top navigation bar includes the touringplans.com logo, a search bar, and a link to 'Travel Tools from The Unofficial Guide™ Team - See Our Books Here!'. Below this is a banner for 'DISNEY WORLD ULTIMATE TOURING PLANS' featuring a photo of a castle. A promotional box on the left says 'Subscribe Now: 1 Full Year for Only \$15.95!' and describes the benefits. On the right, there are fields for 'Choose a Username:' and 'Your Email Address:'. At the bottom of the screen, a navigation bar shows 'HOME / DISNEY WORLD / TOURING PLANS / ULTIMATE TOURING PLANS'. The main content area below the navigation bar contains text about the purpose of Ultimate Touring Plans, a section titled 'The Plans' listing attractions like Magic Kingdom and Epcot, and a note about the plans being for a crazy challenge.

Ultimate Touring Plans are designed to see every attraction, show, parade and live performance in a Disney theme park in a single operating day. In Magic Kingdom, this can involve experiencing more than 50 attractions in as little as ten hours, and includes everything from character autographs to running over a barrel bridge on Tom Sawyer Island. It is not intended for families, first-time visitors, or for anyone simply wanting a nice day in the park. Ultimate Touring Plans are designed for physically fit theme park veterans seeking a unique challenge.

The Plans

Ultimate Touring Plans are linked below, but you should expect to make on-the-fly changes to these plans in order to complete all attractions. Attraction closures, weather, and other unpredictable events will likely make following the plan as written impossible.

Also, note that these plans are meant solely for those looking for a crazy challenge. They include lots of minor attractions that are not an integral part of a Disney theme park experience, and these plans will probably not optimize well if you copy them. WE DO NOT RECOMMEND THAT YOU COPY AN ULTIMATE TOURING PLAN AND TRY TO ALTER IT TO MAKE A FUN DAY FOR YOUR FAMILY. USE [ONE OF OUR OTHER PLANS](#) INSTEAD.

- Magic Kingdom
 - [Magic Kingdom Attractions](#)
 - [Magic Kingdom Ultimate Touring Plan](#)
- Epcot
 - [Epcot Attractions](#)
 - [Epcot Ultimate Touring Plan](#)

Pirates of the Caribbean



Splash Mountain



Seven Dwarfs Mine Train



Magic Kingdom

Spaceship Earth



Soarin'



EPCOT

Hollywood Studios

Toy Story Mania



Alien Swirling
Saucers



Slinky Dog Dash



Rock 'N' Roller Coaster



Kilimanjaro Safaris



Navi River Journey



Flight of Passage



Dinosaur



Expedition Everest



Animal Kingdom

Metadata

Opening/Closing Time

Holidays

After Hour Events

Schools In Session

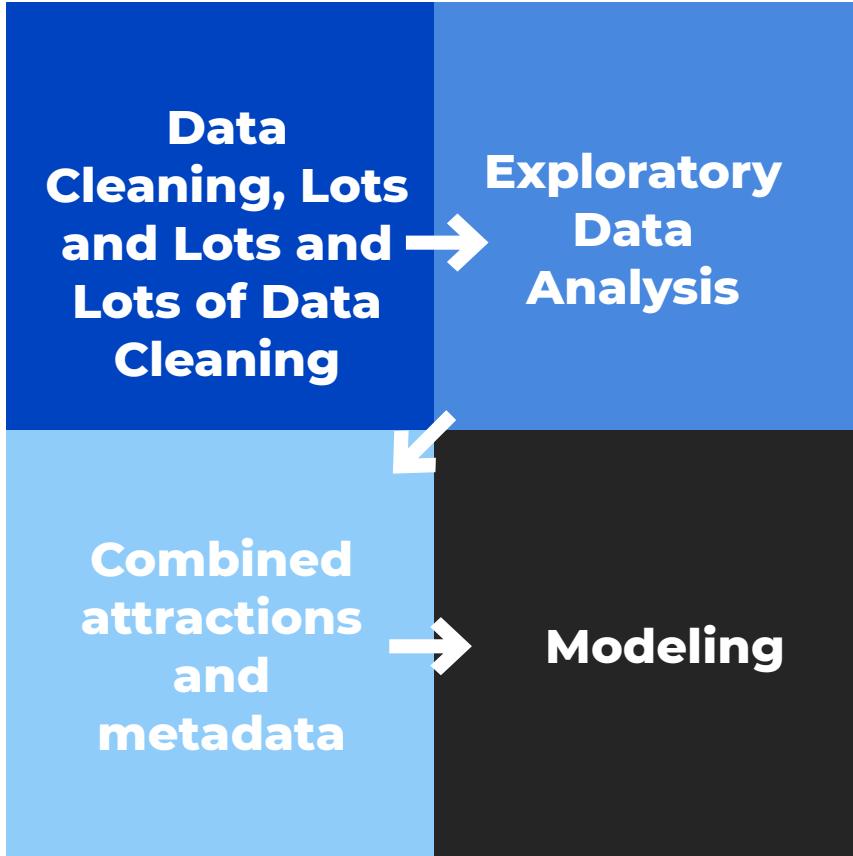
Extra Magic Hour

Parade Time

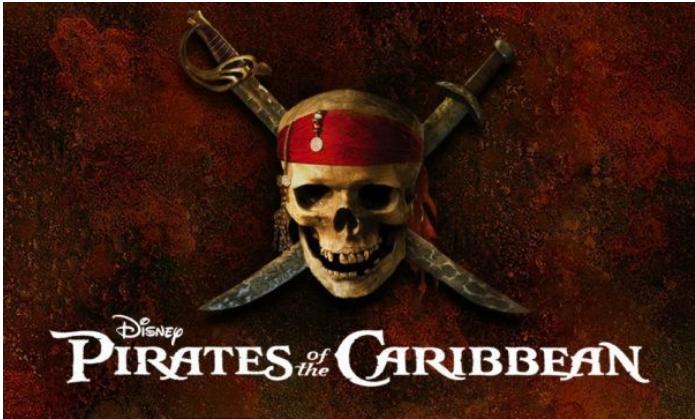
Special Events

Hours in operation

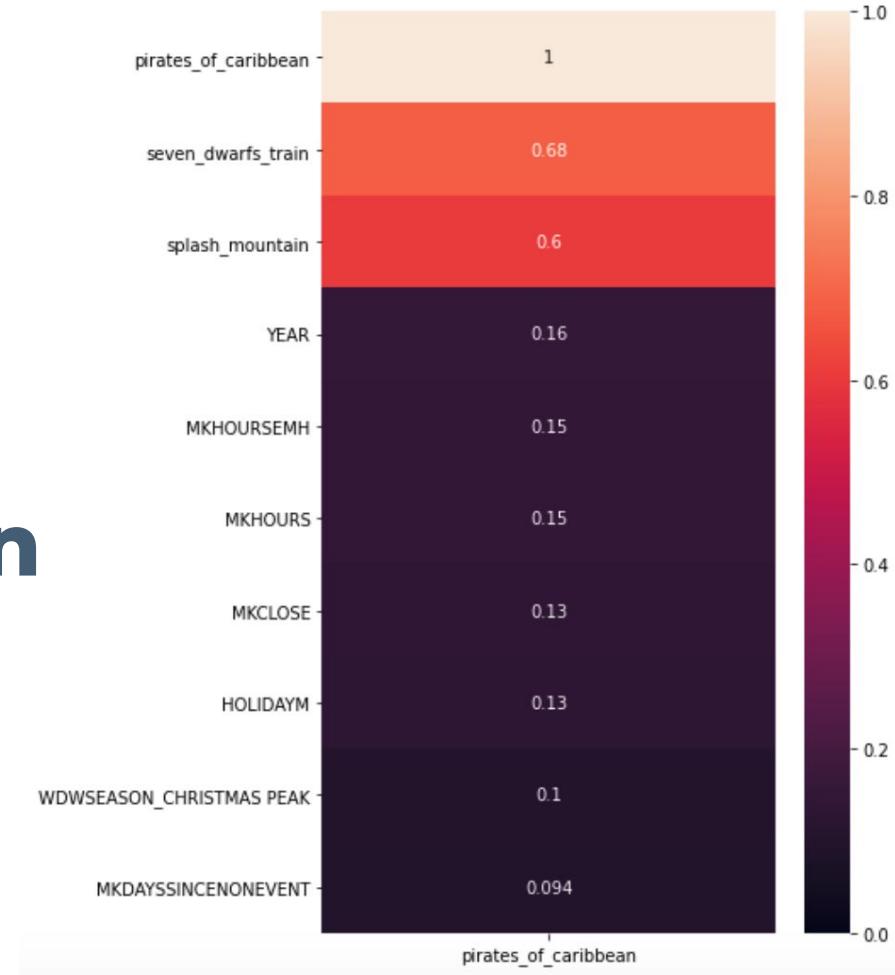
Capacity Lost



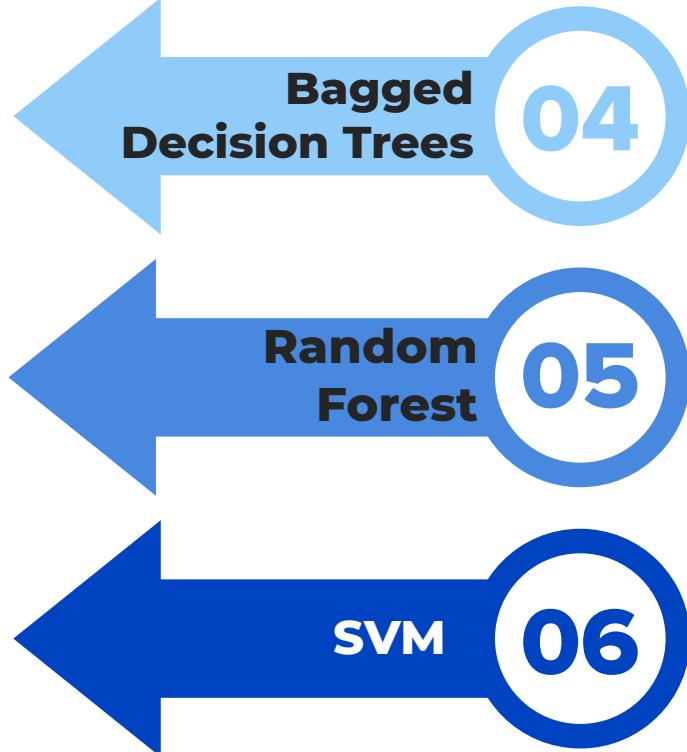
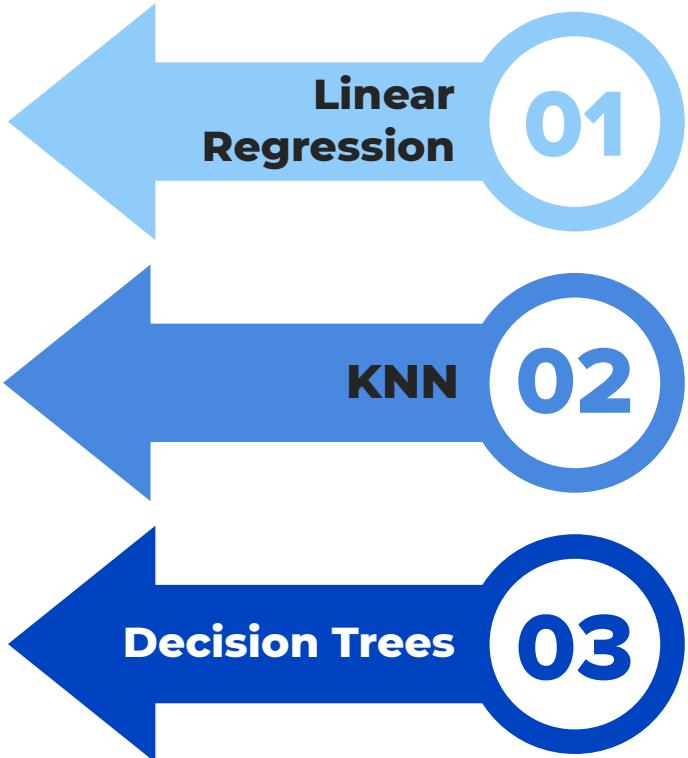
Data



Correlation Heatmap



Models



Models

AdaBoost

07

XGBoost

08

FB Prophet

09

FB Prophet

“Prophet is a procedure for forecasting time series data based on an additive model where non-linear trends are fit with yearly, weekly, and daily seasonality, plus holiday effects. It works best with time series that have strong seasonal effects and several seasons of historical data.”

Quote from

<https://facebook.github.io/prophet/>

Pirates of the Caribbean



RMSE

**Linear
Regression**

11.82

KNN

8.58

**Decision
Tree**

11.92

**Bagged
Decision
Tree**

8.60

**Random
Forest**

7.88

RMSE

12.17

10.61

SVM

AdaBoost

XGBoost

FB Prophet

14.9

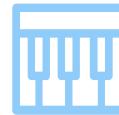
11.17



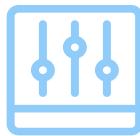
**No
attendance
figures**



**Limited
hourly
features**



**Basic model
vs
differentiated
models for
each ride**



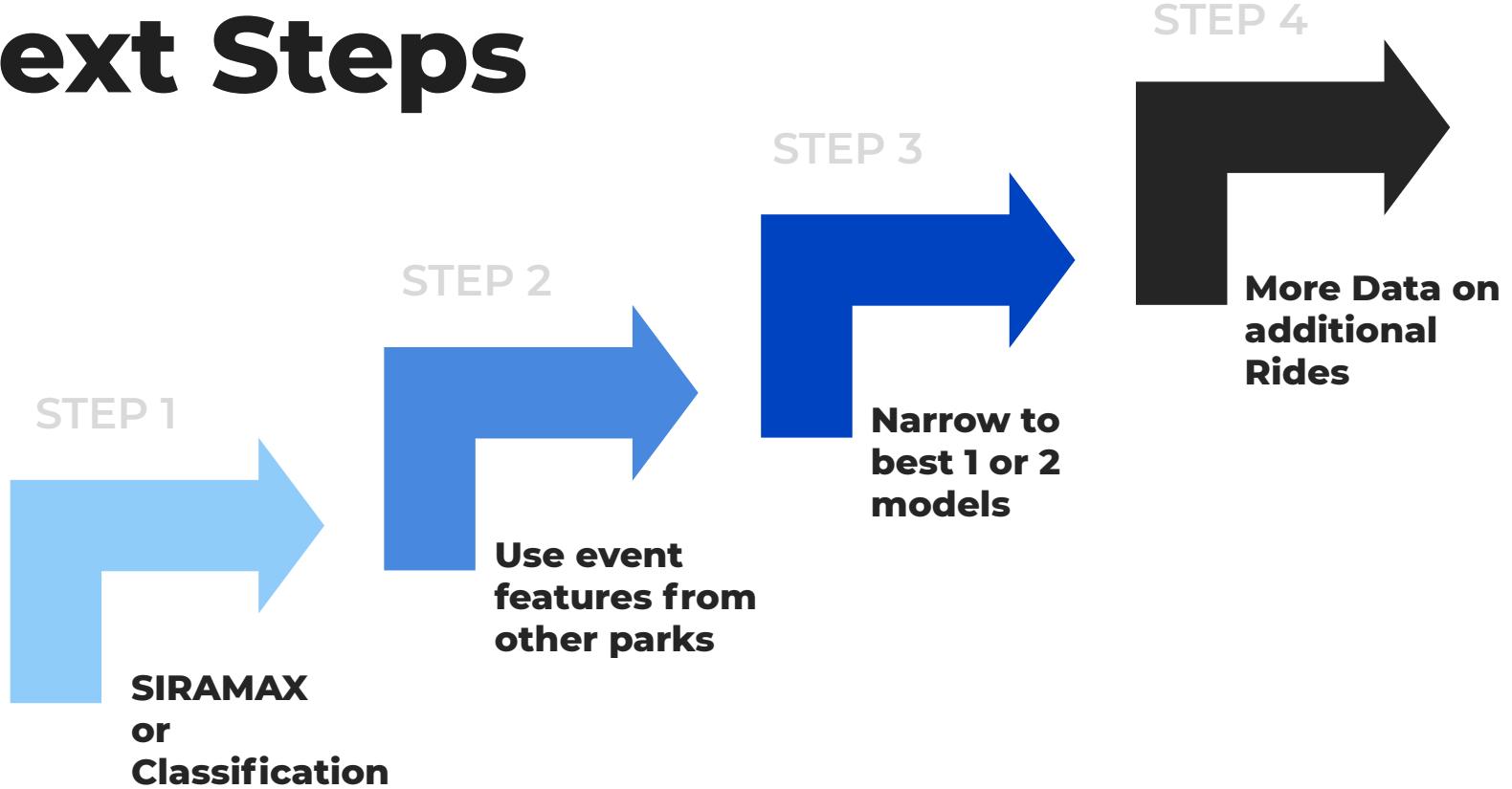
**Using
hourly avg
wait times**



**Extended
ride
downtime**

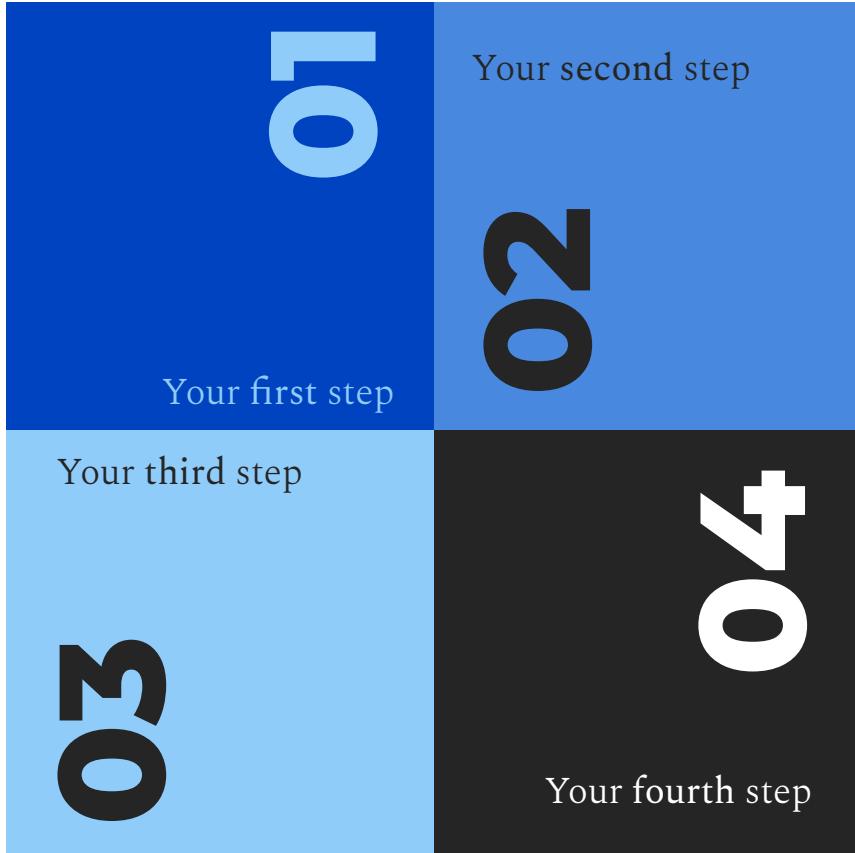
Issues

Next Steps





Any Questions?



Agenda

Here is where your presentation begins

Welcome!



It could be the part
of the presentation
where you can
introduce yourself,
write your email...



Whoa!

1. This is a great headline

And this is the subtitle that makes it comprehensible



The **slide title** goes here!

Do you know what helps you make your point clear?

Lists like this one:

- *Because they're simple*
- *You can organize your ideas clearly*
- *And because you'll never forget to buy milk!*

And the most important thing: the audience won't miss the point of your presentation

Maybe you need to divide the content

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. The planet's name has nothing to do with the liquid metal since it was named after the Roman messenger god, Mercury

VENUS

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

You could use three columns, why not?

MARS

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

JUPITER

It's a gas giant and the biggest planet in our Solar System. Jupiter is the fourth-brightest object in the sky

VENUS

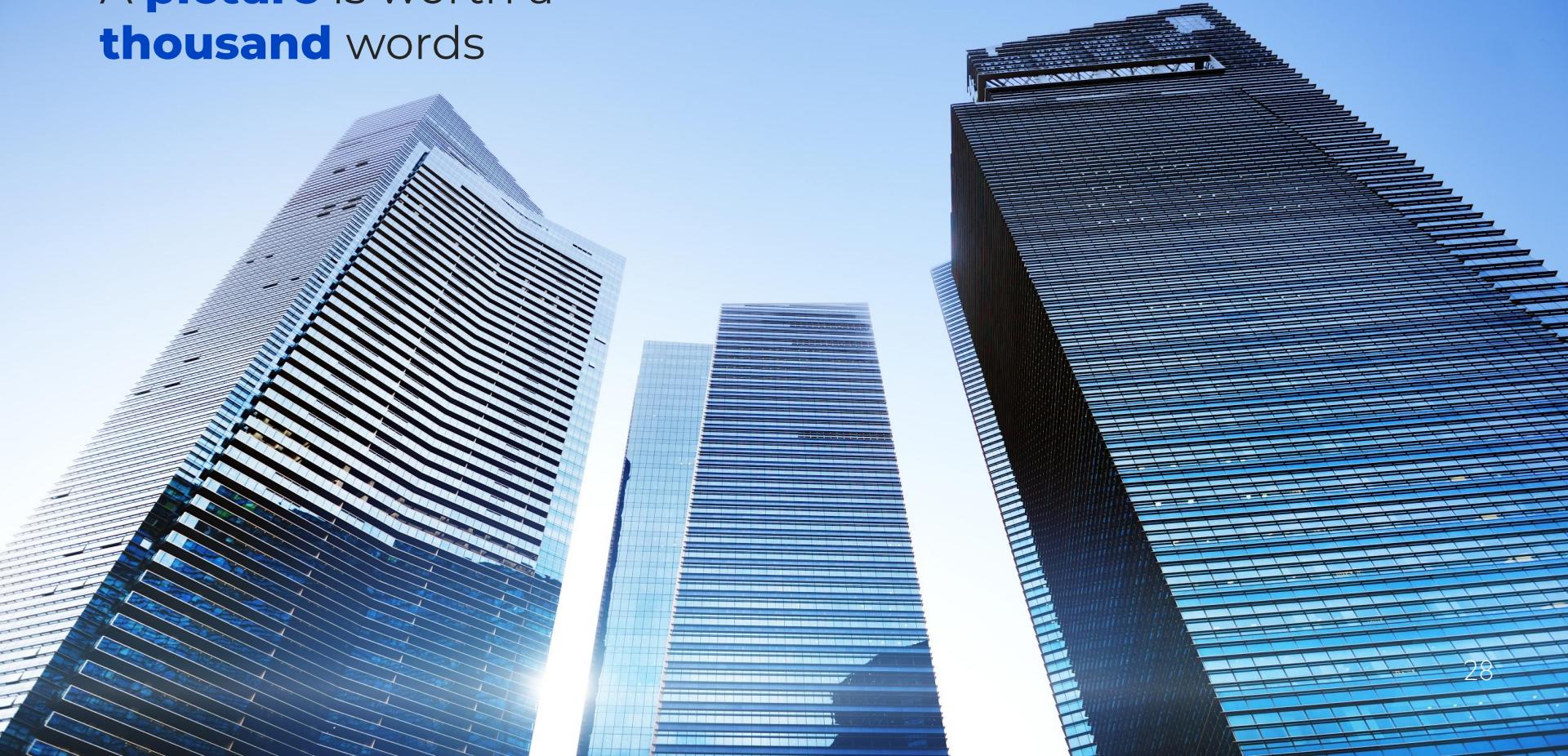
Venus has a beautiful name and is the second planet from the Sun. It's terribly hot—even hotter than Mercury

A **picture** always reinforces the concept

Images reveal large amounts of data quickly, so remember: use an image instead of long texts. Your audience will appreciate that



A **picture** is worth a
thousand words



Combining a **photo** with a big text will catch your audience's attention and will explain your **message** in a better way



**Text with a
background image**

Awesome words

Because **key words** are great for catching your audience's **attention**

Mo



01
02
03

...and the same goes for tables

	MASS (earths)	DIAMETER (earths)	SURFACE GRAVITY (earths)
MERCURY	0,06	0,38	0,38
SATURN	0,11	0,53	0,38
JUPITER	95,2	9,4	1,16

Diagrams are really useful



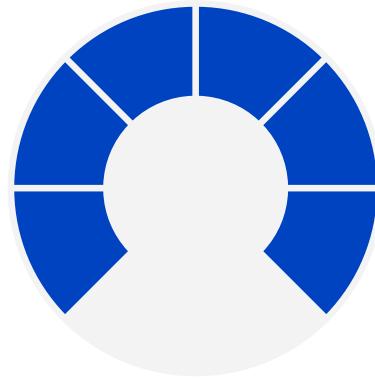
VENUS

Venus has a beautiful name, but it's terribly hot, even hotter than Mercury



MARS

Despite being red, Mars is a cold place, not hot. It's full of iron oxide dust



SATURN

It's a gas giant, composed mostly of hydrogen and helium



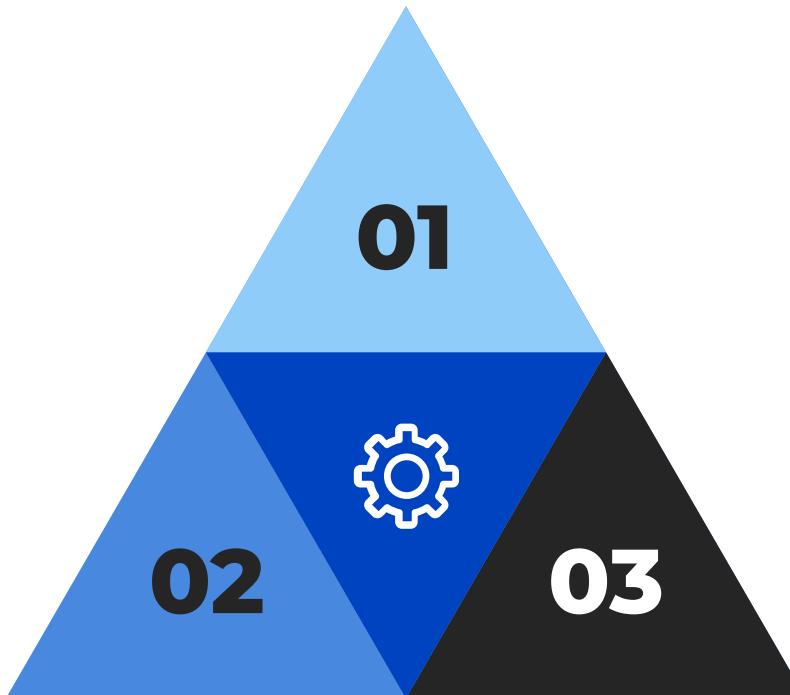
NEPTUNE

Neptune is the farthest planet in our Solar System and the fourth-largest

What about this triangular diagram?

YOUR TEXT

Use this text box to explain all the specifications for this awesome diagram



STEP ONE

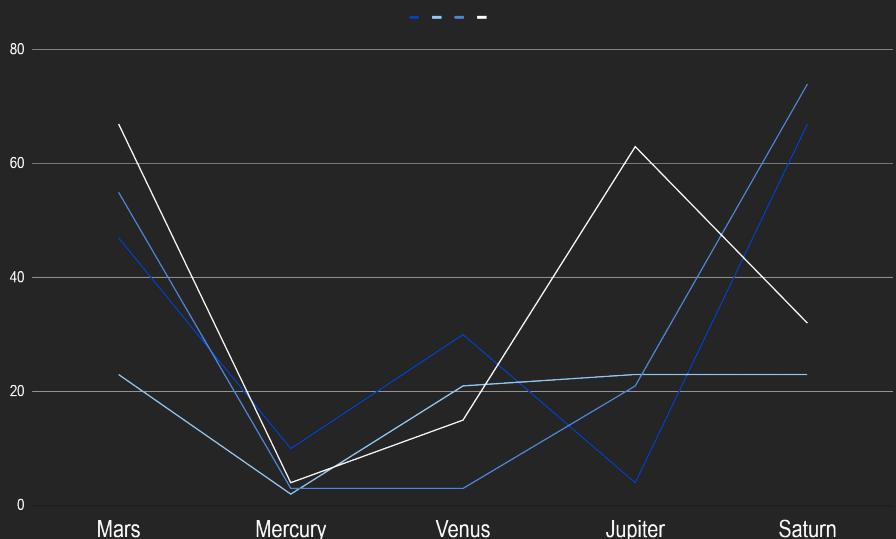
Let your audience understand your first step

STEP TWO

Let your audience understand your second step

STEP THREE

Let your audience understand your third step



JUPITER

It's a gas giant and the biggest planet in our Solar System

VENUS

Venus has a beautiful name, but it's terribly hot, even hotter than Mercury

SATURN

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

MARS

Despite being red, Mars is a cold place, not hot. It's full of iron oxide dust

If you want to modify [this graph](#), click on it, follow the link, change the data and replace it

This is an
awesome map



01

SATURN

It's composed mostly of hydrogen and helium

02

MARS

Despite being red, Mars is a cold place, not hot

03

MERCURY

Mercury is the closest planet to the Sun

MERCURY

Mercury is the closest planet to the Sun and is only a bit larger than our Moon

LEVEL 01 | 1

Subtitle goes here

LEVEL 02 | 1

Subtitle goes here

MARS

Despite being red, Mars is a cold place, not hot. It's full of iron oxide dust

LEVEL 02 | 2

Subtitle goes here

SATURN

It's a gas giant, composed mostly of hydrogen and helium

LEVEL 03 | 1

Subtitle goes here

LEVEL 03 | 2

Subtitle goes here

LEVEL 03 | 3

Subtitle goes here

LEVEL 03 | 4

Subtitle goes here

A timeline always works fine



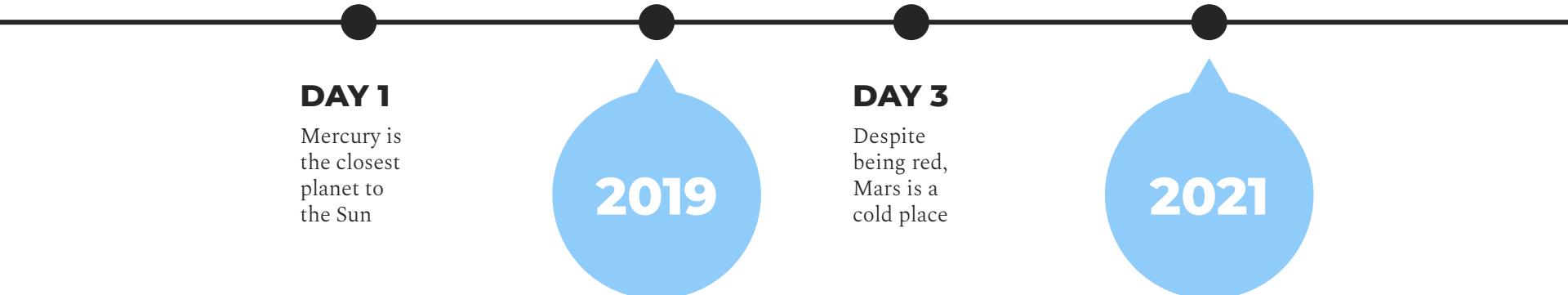
DAY 2

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



DAY 4

Saturn is the ringed one and a gas giant



333,000.00

Earths is the Sun's mass

24h 37m 23s

is Jupiter's rotation period

386,000 km

is the distance between the Earth and the Moon

Reviewing concepts is a good idea

MERCURY

Mercury is the closest planet to the Sun and is only a bit larger than our Moon

VENUS

Venus has a beautiful name, but it's terribly hot, even hotter than Mercury

JUPITER

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

MARS

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

SATURN

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

NEPTUNE

Neptune is the farthest planet in our Solar System and the fourth-largest



CEO
PETER BISHOP

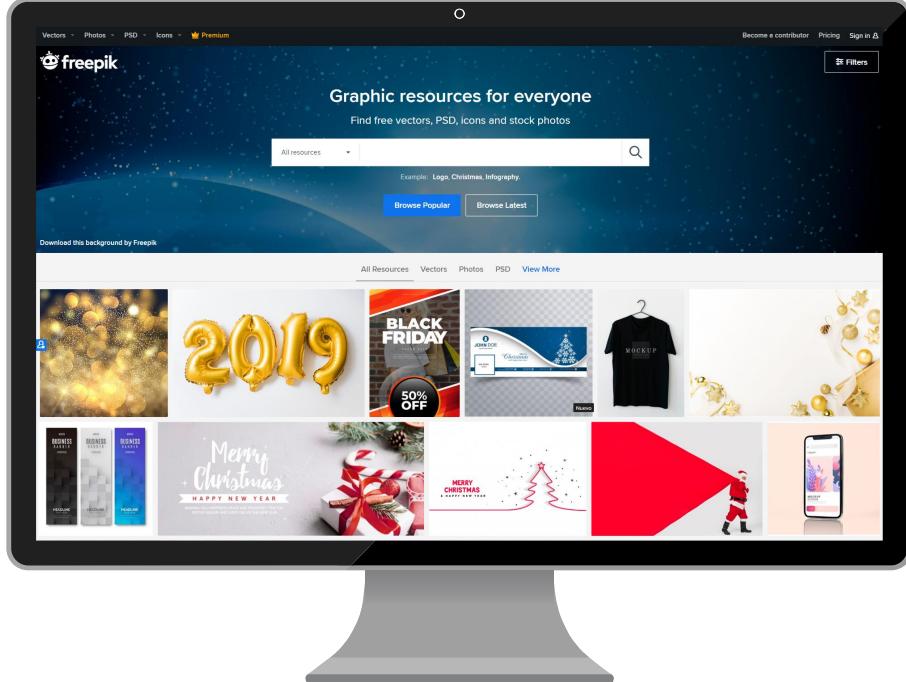
Here you can talk a bit
about this person

CO - CEO
OLIVIA
DUNHAM

Here you can talk a bit
about this person

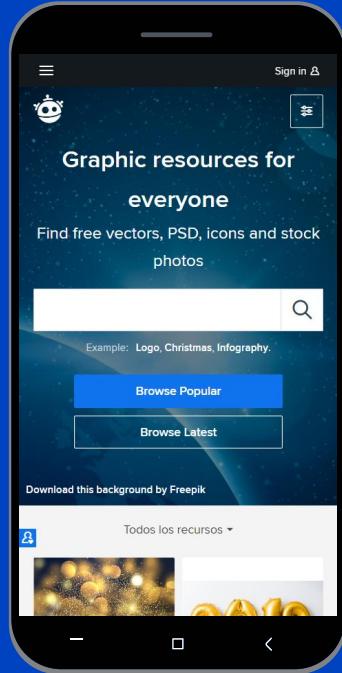


Team



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Thanks!

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(<https://fonts.google.com/specimen/Montserrat>)

Spectral

(<https://fonts.google.com/specimen/Spectral>)



#90ccfa



#4888de



#0043c1



#252525

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Medical Icons



Nature Icons



Performing Arts Icons



SEO & Marketing Icons



Teamwork Icons



