



Prédiction de l'émission de CO₂

TP DE MACHINE LEARNING: REGRESSION

Seattle energy prediction, dataset 2016

C'est **un projet classique** en machine learning, déjà exploré par des générations avant nous à travers de nombreux exemples disponibles sur diverses plateformes (**GitHub, Gitlab, Kaagle**, etc.)





Comment alors se démarquer?

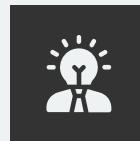
“C'est quoi un excellent
projet de Machine
learning ?”

Un projet parfait c'est celui qui :



Résout un vrai problème business

- Impact mesurable (gain, temps économisé, décisions améliorées)
- Utilisateurs réels qui attendent la solution
- Alternative actuelle coûteuse ou inefficace



Est réproductible et maintenable

- N'importe qui peut relancer les expériences
- Code propre, documenté, test

Un projet parfait c'est celui qui :



Est déployé et utilisé en production

- Ce n'est pas juste un notebook
- Des gens l'utilisent vraiment
- Il génère de la valeur continue



Est monitored et amélioré avec le temps

- On sait si ça fonctionne mal
- On peut identifier les problèmes
- Le modèle s'améliore avec les nouvelles données

7 PHASES

Pour réaliser un bon projet

A photograph showing several people in a modern office environment, focused on their work on laptops. In the foreground, a woman with dark hair and a light blue shirt is smiling and looking down at her screen. Behind her, another person is also looking at their laptop. The background is slightly blurred, showing more office space and other individuals.

01

Définition du problème

Pourquoi se lancer dans ce projet?

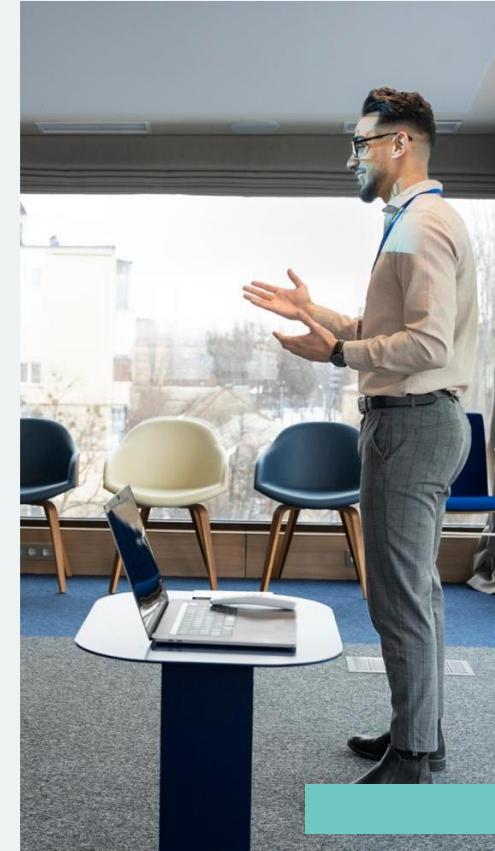
Objectifs

01

Comprendre le problème métier

02

Définir le succès mesurable



Questions essentielles

01

Quel est le problème exact ?

02

Qui va utiliser cette prédition ? Comment ?

03

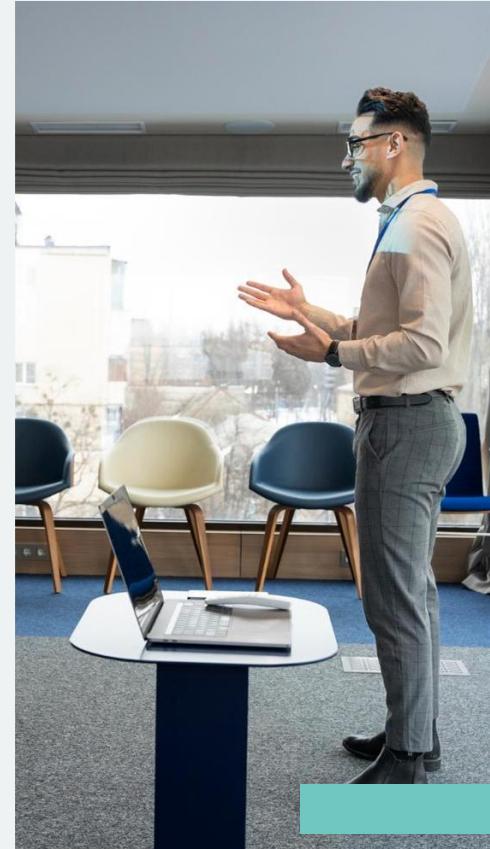
Quelle décision sera prise grâce au modèle ?

04

Quel est le coût d'une erreur ?

05

Existe-t-il déjà une solution ?



Livrables

01

Document de cadrage projet (max 5p)

02

Définition des KPIs business (pas seulement ML)

03

Critères d'acceptation clairs

Identifier les bâtiments qui consomment 30% de plus que la normale pour leur catégorie, afin de prioriser les audits énergétiques et économiser des millions !



Une bonne organisation !

The screenshot shows a GitHub repository interface for a data science project. On the left, there's a sidebar with a 'Files' section showing a tree view of files and folders. The 'notebooks' folder contains several Jupyter notebooks: 00_All-meters-dataset.ipynb, 01_EDA-metadata.ipynb (which is selected), 02_EDA-weather.ipynb, 03_EDA-meter-reading.ipynb, 04_Normalized-consumption.ipynb, 05_Anomaly-detection.ipynb, 06_Data-quality.ipynb, 07_Weather-sensitivity.ipynb, 08_BreakOut-detection.ipynb, 09_BreakOut-plot.ipynb, 10_Cleaned-dataset.ipynb, 11_Models.ipynb, 12_Models-evaluation.ipynb, .gitattributes, .gitignore, LICENSE, and README.md.

The main area displays the content of the selected notebook, '01_EDA-metadata.ipynb'. It shows the code at the top:

```
import matplotlib.pyplot as pylab
%matplotlib inline
import seaborn as sns
sns.set_style("darkgrid")
mpl.style.use('ggplot')

import gc
```

Below the code, the word 'Dataset' is followed by a bulleted list of variables and their descriptions:

- building_id : building code-name with the structure SiteID_SimplifiedUsage_UniqueName.
- site_id : animal-code-name for the site.
- building_id_kaggle : building ID used for the [Kaggle competition](#) (numeric).
- site_id_kaggle : site ID used for the [Kaggle competition](#) (numeric).
- primaryspaceusage : Primary space usage of all buildings is mapped using the [energystar scheme building description types](#).
- sub_primaryspaceusage : [energystar scheme building description types](#) subcategory.
- sqm : Floor area of building in square meters (m2).
- lat : Latitude of building location to city level.
- lon : Longitude of building location to city level.
- timezone : site's timezone.
- electricity : presence of this kind of meter in the building. Yes if affirmative, NaN if negative.
- hotwater : presence of this kind of meter in the building. Yes if affirmative, NaN if negative.
- chilledwater : presence of this kind of meter in the building. Yes if affirmative, NaN if negative.
- steam : presence of this kind of meter in the building. Yes if affirmative, NaN if negative.
- water : presence of this kind of meter in the building. Yes if affirmative, NaN if negative.
- irrigation : presence of this kind of meter in the building. Yes if affirmative, NaN if negative.
- solar : presence of this kind of meter in the building. Yes if affirmative, NaN if negative.
- gas : presence of this kind of meter in the building. Yes if affirmative, NaN if negative.
- industry : Industry type corresponding to building.
- subindustry : More detailed breakdown of Industry type corresponding to building.
- heatingtype : Type of heating in corresponding building.

https://github.com/buds-lab/building-data-genome-project-2/blob/master/notebooks/01_EDA-metadata.ipynb
Mais par contre pas assez de commentaire et d'explication

Une bonne organisation !

The screenshot shows a Jupyter Notebook documentation page with a sidebar and three main content sections.

Left Sidebar:

- Parcours de Formation
- 0. Fondamentaux**
 - Comment lire cette documentation
 - DevOps : principes et réalités
 - DevSecOps : intégrer la sécurité
 - Menace, risque, vulnérabilité, attaque
 - Pourquoi la sécurité échoue
 - Sécurité : une question de compromis
 - Sécurité by design vs a posteriori
 - Responsabilités partagées
 - Documenter ses systèmes
 - Glossaire
- 1. DevSecOps**
 - DevSecOps en pratique
 - Mesurer et piloter
 - Approches et patterns
 - Organiser et outiller
 - Équipes et métiers
- 2. Administrer des Systèmes**
- 3. Les réseaux informatiques**
- 4. Développer des applications**

Top Bar:

- Docs Blog
- Rechercher
- Ctrl K
- Social sharing icons
- Auto

Content Sections:

- ## 1. Structurez vos notebooks

Organisation claire :

```
# Titre du Notebook
**Description** : Objectif et contexte

## 1. Import des bibliothèques
## 2. Chargement des données
## 3. Exploration
## 4. Analyse
## 5. Conclusions
```
- ## 2. Commentez votre code

Code explicite :

```
# Charger les données de vente du mois dernier
import pandas as pd
df = pd.read_csv('ventes_octobre.csv')

# Calculer la moyenne des ventes par jour
moyenne_journaliere = df['ventes'].mean()
print(f'Moyenne : {moyenne_journaliere:.2f}€')
```
- ## 3. Utilisez des noms de variables clairs

Right Sidebar:

- Sur cette page**
- Vue d'ensemble
- Qu'est-ce qu'un notebook Jupyter ?
- Prérequis pour commencer
- Installation d'Anaconda : la solution tout-en-un
- Pourquoi choisir Anaconda ?
- Télécharger et installer Anaconda
- Lancer Jupyter : première interface
- Option 1 : Anaconda Navigator (recommandé débutants)
- Option 2 : Terminal/Ligne de commande
- Comprendre l'interface d'accès
- Créer votre premier notebook
- Étape 1 : Nouveau notebook
- Étape 2 : Nommer votre notebook
- Étape 3 : Comprendre l'interface du notebook
- Vos premières cellules de code
- Cellule 1 : Hello World en Python
- Cellule 2 : Calculs mathématiques
- Cellule 3 : Utiliser la variable

<https://blog.stephane-robert.info/docs/mlops/jupyter/premier-notebook/>

Une bonne organisation !

Chris Holdgraf

About Projects Publications Talks Blog

Search

Welcome

About me

Projects

Publications

Blog

2025 >

2024 >

2023 >

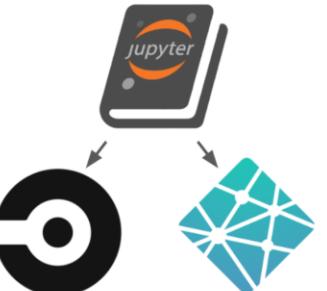
2022 >

2021 >

2020 >

2019 >

Three things I love about



Recently I experimented with whether we can [automate deploying a Jupyter Book online](#). Using continuous integration / deployment services seems like a natural place to try this out. One can upload a barebones set of code to a GitHub repository, then configure a build system to create a book and deploy it online from there. This blog post is a place to keep track of the current state of affairs for this workflow.

CONTENTS

The general

Netlify

CircleCI

Wrapping u

Solution: Use the `--no-input` flag to hide widget code, or embed widget state:

```
jupyter nbconvert notebook.ipynb --to html --template lab
```

For interactive widgets, consider using Voilà or JupyterBook instead.

Memory errors on large notebooks

Problem: Conversion fails on notebooks with large outputs

Solution: Clear outputs first, then re-execute selectively:

```
# Clear all outputs  
jupyter nbconvert --clear-output --inplace notebook.ipynb  
  
# Execute only specific cells manually, then convert  
jupyter nbconvert notebook.ipynb --to html
```

Automated exports

Set up scheduled exports with cron (Linux/macOS):

```
# crontab -e  
# Run daily at 2 AM  
0 2 * * * cd /path/to/project && jupyter nbconvert notebooks/*.ipynb --to html --ex
```

Or use GitHub Actions:

<https://www.runcell.dev/blog/nb-convert-tutorial>
<https://chrisholdgraf.com/blog/2019/2019-10-11-automating-jb/>

A photograph showing several people in an office environment, focused on their work at desks with laptops. In the foreground, a woman with dark hair and a light blue shirt is smiling and looking down at her screen. Behind her, other individuals are also engaged with their computers. The scene conveys a sense of teamwork and productivity.

02

Exploration des données

EDA

Objectifs

01

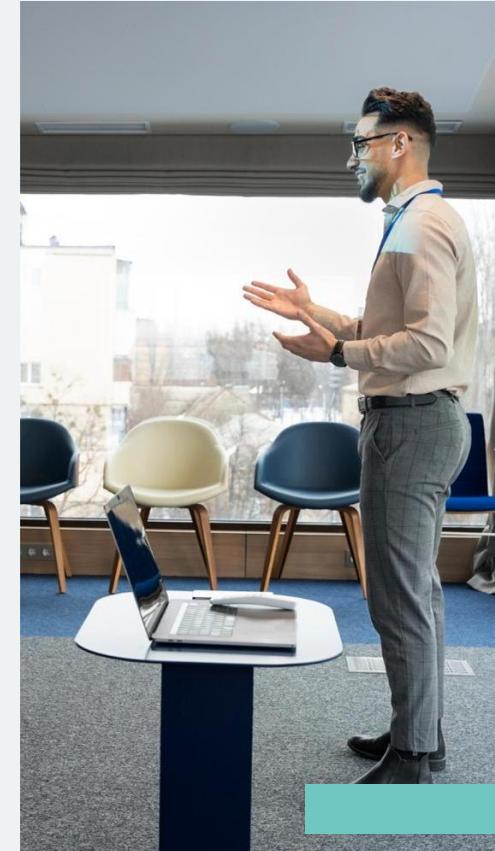
Comprendre profondément les données

02

Identifier les patterns, anomalies, biais

03

Valider la faisabilité du projet



Méthodologie

5 (ou plus) notebooks documenté et bien écrit

Vue d'ensemble	Lignes,colonnes;types de variables;valeurs manquantes;autres infos d'ensembles
Analyse univariée	Distribution de chaque variable;outliers (erreurs ou réelles);examens de chaque variables notamment les catégorielles
Analyse bivarié et multivarié	Corrélation avec la cible;realations entre features;
Clustering	egroupement naturel des données en segments homogènes, détection de profils, anomalies et comportements similaires.
Qualité de la données	Incohérences(valeurs negatives,geolocalisation) ; DATA LEAKAGE ;les données futures seront elles similaires ?



A quoi ressemble un notebook de qualité ?

Notebook ou script python ?

A photograph showing several people in an office environment, focused on their work at desks with laptops. In the foreground, a woman with dark hair and a light blue shirt is smiling and looking down at her screen. Other individuals are visible in the background, also engaged with their computers.

03

Feature engineering et préparation

Transformation et pipeline

Objectifs

01

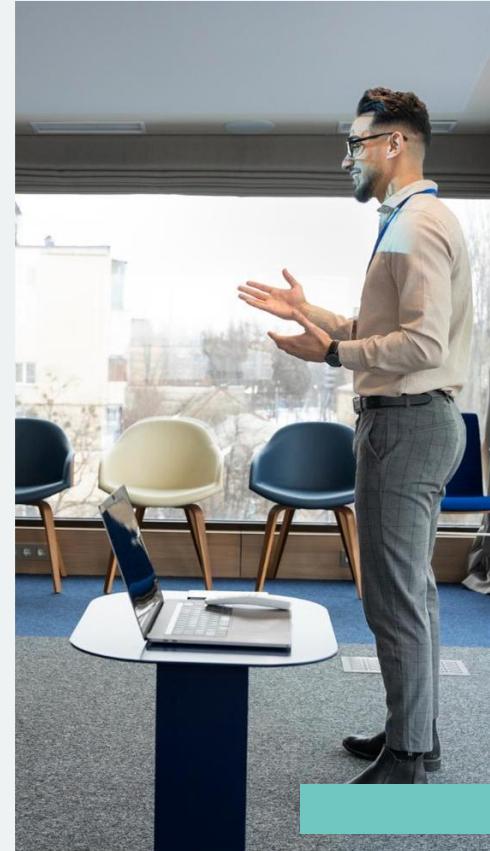
Transformer les données brutes en features utiles

02

Créer des features métier pertinentes

03

Préparer des pipelines reproductibles



Stratégies de Feature Engineering

01

Features métier

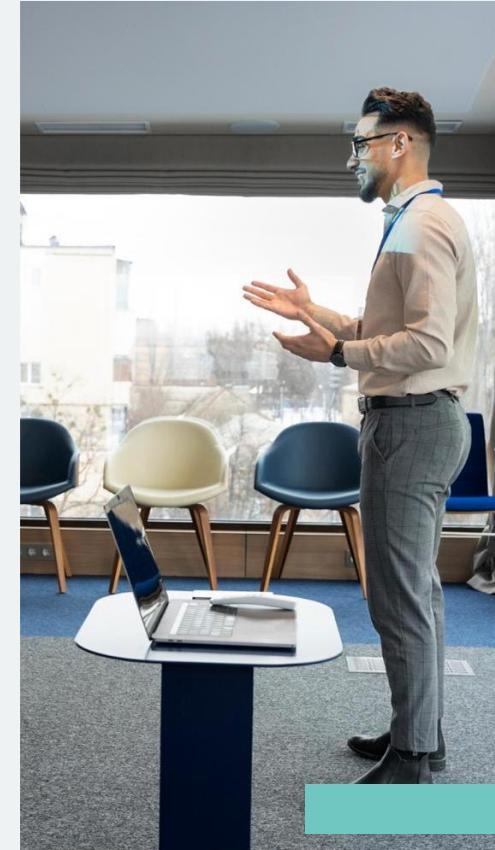
02

Encodage des catégorielles

03

Features numériques

La normalisation;transformation;ect



Principe

01

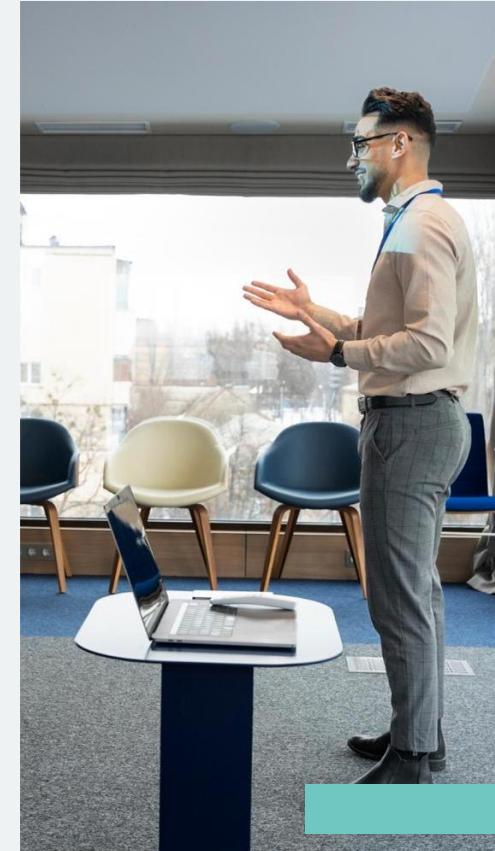
Pipeline scikit-learn

02

Versioning des features avec DVC

03

Documentation



A photograph showing several people in an office environment, focused on their work at desks with laptops. In the foreground, a woman with dark hair and a light blue shirt is smiling and looking down at her screen. Other individuals are visible in the background, also engaged with their computers.

04

La modélisation

Transformation et pipeline

Objectifs

01

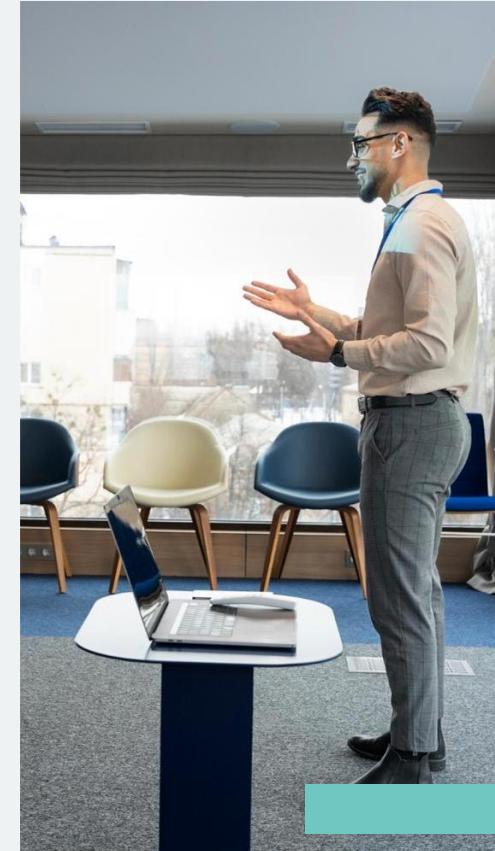
Tester plusieurs approches méthodiquement

02

Optimiser les hyperparamètres

03

Sélectionner le meilleur modèle



Méthodologie

01

Modèle baseline

02

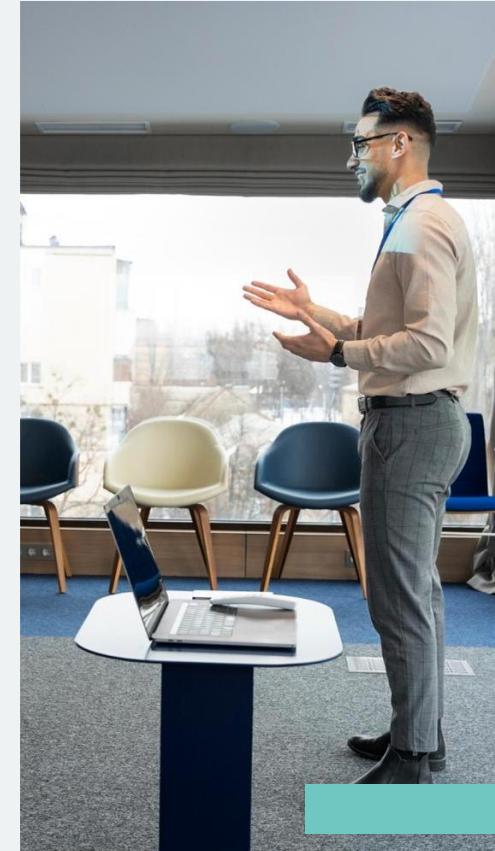
Modèles linéaires, Modèles ensembles, spécialisé;

03

Optimisation hyperparamètre

04

La ou les métriques à suivre ! et le TRACKING



Livrables

01

Rapport de modélisation (modèles testés,
résultats)

02

Modèle final sérialisé avec son pipeline



A photograph showing several people working on laptops at a table in a dimly lit environment. In the foreground, a woman with dark hair and a light blue shirt is smiling and looking down at her screen. Other people are visible in the background, also focused on their work.

05

Évaluation et interprétabilité

Analyse des erreurs, par segment; testes statistiques,...

A photograph showing several people in an office environment, focused on their work at desks with laptops. In the foreground, a woman with dark hair and a light blue shirt is smiling and looking down at her screen. Behind her, other individuals are also engaged with their computers. The scene is lit with warm, ambient lighting from overhead fixtures.

06

Déploiement

API REST et Dashboard



07

Monotoring et Maintenance



0

Outils et Compétences

API REST et Dashboard



Les outils

Les conventions standard

Git;Github;python;**DVC**

Système de branche et de Pull request
Commit atomique; env;.env;i=gitignore



Les spécialistes

CI CD avec Github Actions;Docker;MLFLOW; DVC



????

????????????????





- Peux-tu te présenter en quelques mots ?
- Qu'attends-tu de ce projet, qu'aimerais-tu y accomplir ?
- Quel niveau d'engagement penses-tu avoir (temps, énergie, rôle) ?
- As-tu déjà travaillé sur des projets ML ? Si oui, lesquels ?
- Quels langages, frameworks ou outils tu maîtrises le mieux ?
- Qu'est-ce qui te motive le plus dans ce domaine ?
- Comment aimerais-tu collaborer avec les autres ?
- Qu'aimerais-tu améliorer ou apprendre grâce à ce projet ?
- Quel est ton style de travail préféré (autonome, collaboratif, structuré, flexible...) ?

—Question publique:

CONSTRUCTION ...

EN

Contents of this template

You can delete this slide when you're done editing the presentation

Fonts

To view this template correctly in PowerPoint, download and install the fonts we used

Used and alternative resources

An assortment of graphic resources that are suitable for use in this presentation

Thanks slide

You must keep it so that proper credits for our design are given

Colors

All the colors used in this presentation

Icons and infographic resources

These can be used in the template, and their size and color can be edited

Editable presentation theme

You can edit the master slides easily. For more info, click [here](#)

For more info:

[Slidesgo](#) | [Blog](#) | [FAQs](#)

You can visit our sister projects:

[Freepik](#) | [Flaticon](#) | [Storyset](#) | [Wepik](#) | [Videvo](#)



Examples

Mercury

Mercury is the closest planet to the Sun and the smallest one of them all



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



Table of contents

01

Theory lesson

You can describe the topic of the section here

02

Features of the topic

You can describe the topic of the section here

03

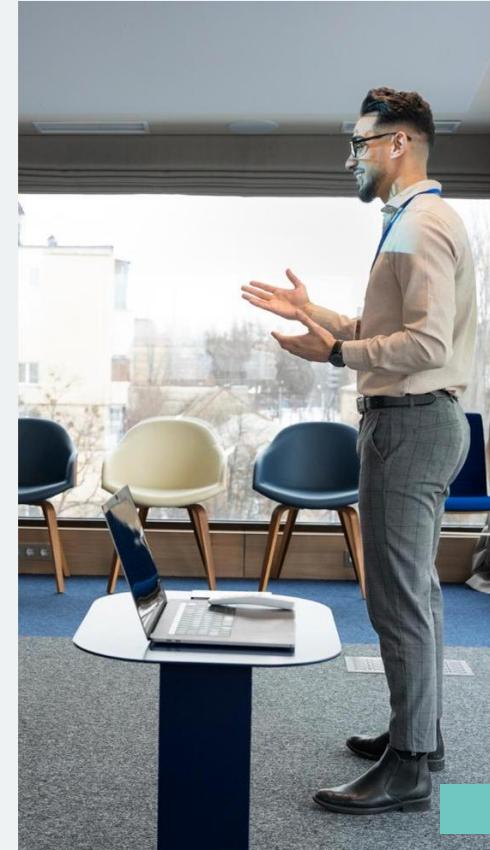
Tips

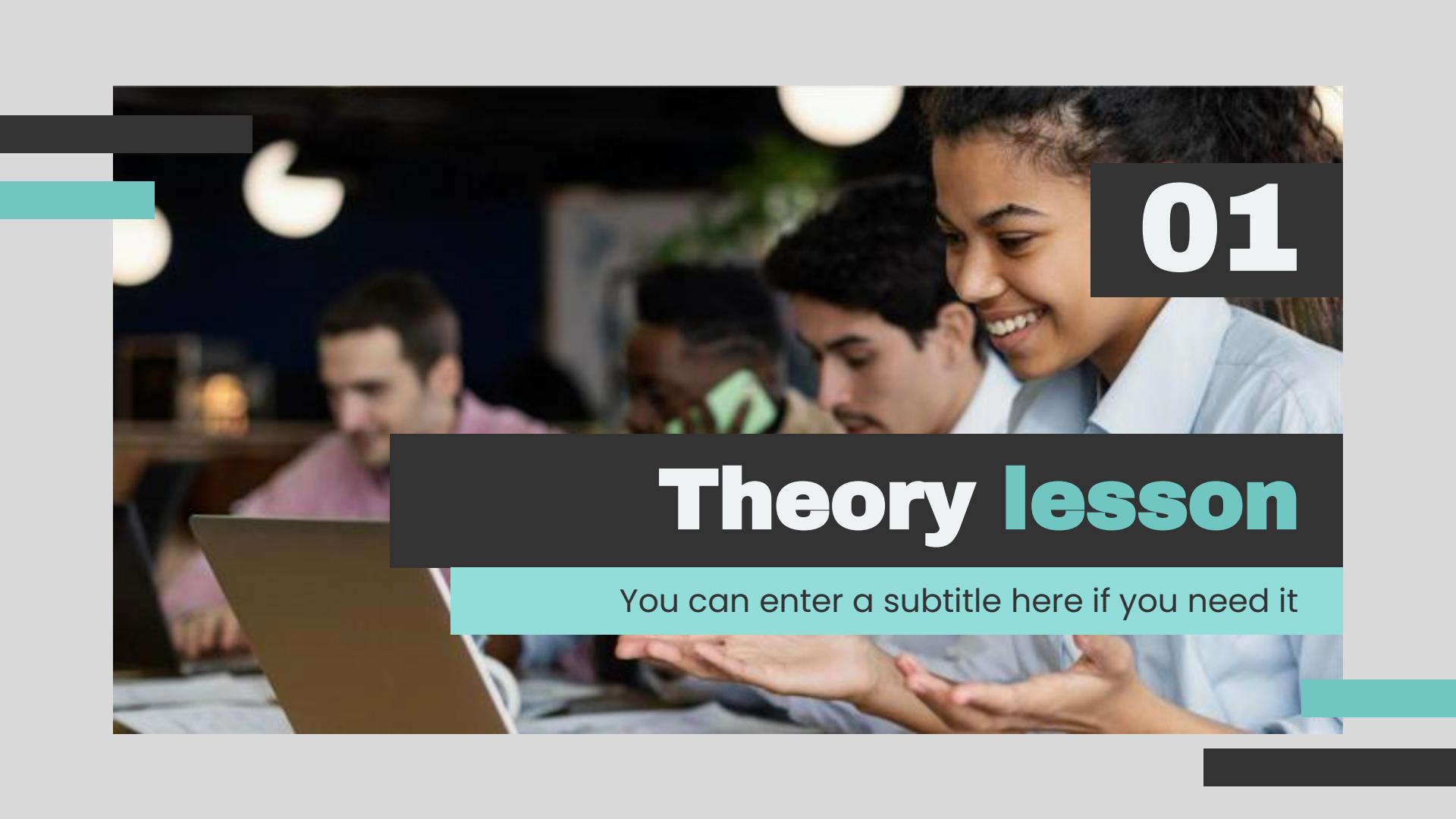
You can describe the topic of the section here

04

Practical exercise

You can describe the topic of the section here



A photograph of several students in a classroom setting, focused on their work on laptops. The background is slightly blurred.

01

Theory lesson

You can enter a subtitle here if you need it

Introduction

Mercury is the closest planet to the Sun and the smallest one in the entire Solar System. This planet's name has nothing to do with the liquid metal, since Mercury was named after the Roman messenger god. Its temperatures aren't as terribly hot as that planet's

Mercury takes a little more than 58 days to complete its rotation, so try to imagine how long days must be there! Since the temperatures are so extreme, albeit not as extreme as in Venus, Mercury has been deemed to be non-habitable for humans

Concepts

Concept 1

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

Concept 2

Venus has a beautiful name and is the second planet from the Sun. It's hot and has a poisonous atmosphere

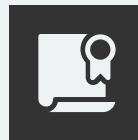


What is this topic about?



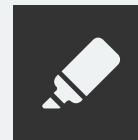
Mercury

Mercury is the closest planet to the Sun and the smallest one of them all



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

Features of the topic



Mars

Despite being red, Mars is actually a cold place.
Mars is made of basalt



Neptune

Neptune is an ice giant.
Neptune is the farthest planet from the Sun



Jupiter

Jupiter is the biggest planet of them all. Jupiter is a gas giant



Saturn

Saturn is a gas giant.
Saturn was named after a Roman god

Recommendations

Mars

Mars is full of iron oxide dust. Mars is made of basalt

Venus

Venus is a hot planet. Venus has a toxic atmosphere

Neptune

Neptune is the eighth planet from the Sun

Mercury

Mercury is the closest planet to the Sun. Mercury is small

Saturn

Saturn is a gas giant. Saturn was named after a Roman god

Jupiter

Jupiter is big. Jupiter was named after a Roman god

A picture always reinforces the concept

You can give a brief description of the topic you want to talk about here. For example, if you want to talk about Mercury, you can say that it's the smallest planet in the entire Solar System



4,498,300,000

Big numbers catch your audience's attention



9h 55m 23s

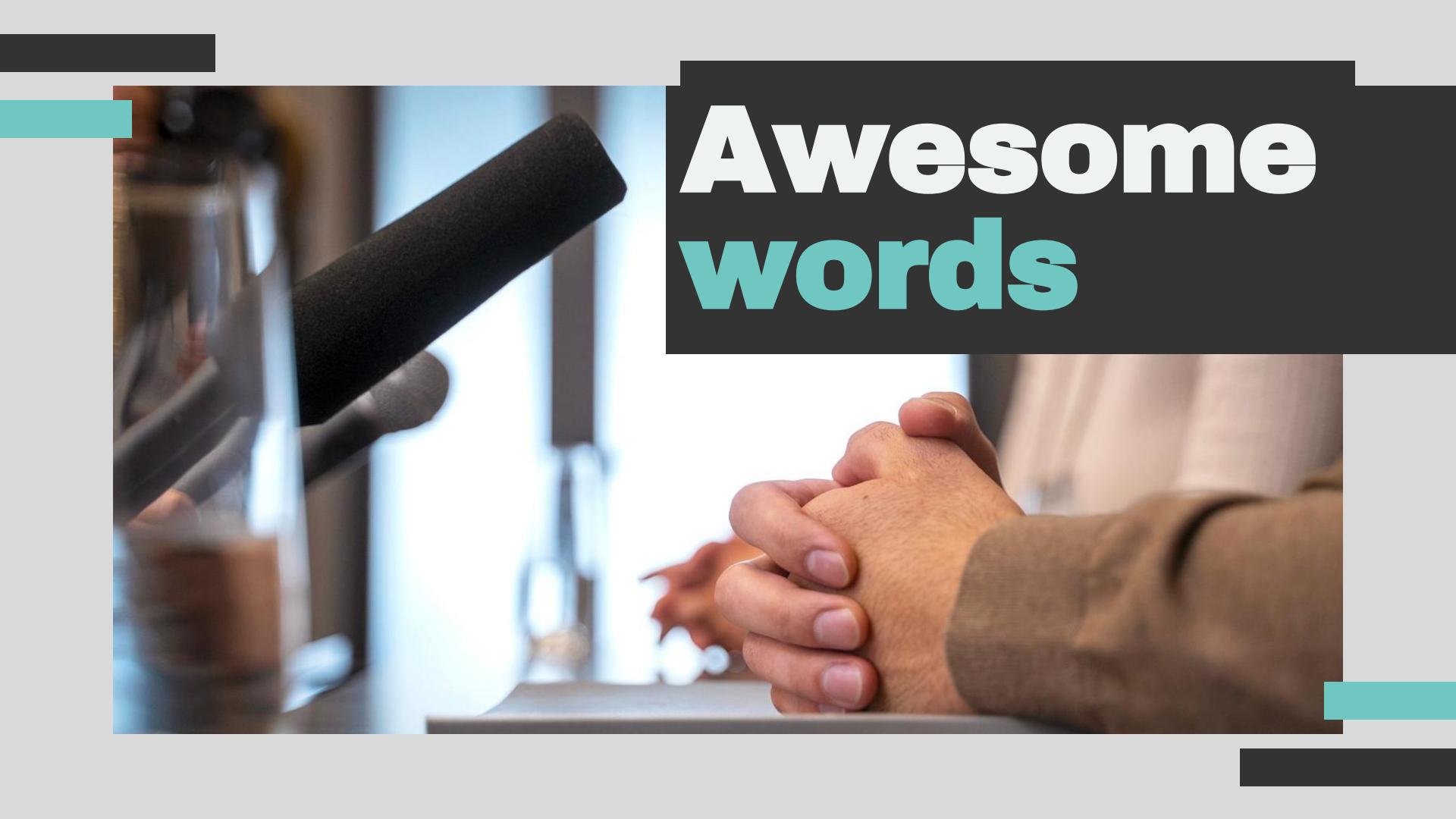
Jupiter's rotation period

333,000

The Sun's mass compared to Earth's

386,000 km

Distance between Earth and the Moon



Awesome words

A photograph of a professional presentation or lecture. A woman with dark curly hair, wearing an orange blazer, stands on the right side of the frame, holding a microphone and speaking. She is looking towards the left. In the foreground, the back of a person's head with long blonde hair is visible. Behind her, several other people are seated, facing her, some smiling. The room has modern lighting fixtures and a framed picture on the wall.

A picture is worth a
thousand words

Voice projection and tone practical exercise

- Mercury is the closest planet to the Sun
- Mercury is very small
- Mercury has a very thin atmosphere
- One day on Mercury takes 59 Earth days
- Mercury is the smallest planet
- Mercury was named after a god
- Its surface is similar to Earth's Moon
- Mercury's core contains iron



KWL (brainstorming)

**What I
know**

Mercury is the closest planet to the Sun

**What I
want to
know**

Venus is the second planet from the Sun

**What I
learned**

Jupiter is the biggest planet of them all

Saturn is composed of hydrogen and helium

Neptune is the farthest planet from the Sun

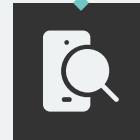
Identifying the target audience

Topic



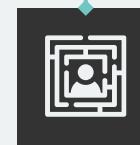
Mercury

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



Mars

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

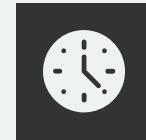


Venus

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

Conference schedule suggestion

Time	Activity
9:30 AM	Welcome and opening remarks
10:00 AM	Keynote speaker: [Name]
12:00 PM	Lunch break
1:30 PM	Concurrent session 1
4:00 PM	Workshop: [Topic]
7:00 PM	Conference dinner



Mars

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

Preparing audio-visual equipment

First

Mars is full of iron oxide dust. Mars is made of basalt

Next

Venus is a hot planet. Venus has a toxic atmosphere

Next

Neptune is the farthest planet from the Sun

Next

Mercury is the closest planet to the Sun. Mercury is small

Next

Saturn is a gas giant. Saturn was named after a Roman god

Last

Jupiter is big. Jupiter was named after a Roman god

Classification

Mars	Venus	Mercury	Jupiter
<ul style="list-style-type: none">• Small• Red• Cold• Rocky	<ul style="list-style-type: none">• Small• Hot• Dry• Volcanic	<ul style="list-style-type: none">• Small• Hot• Rocky• Cratered	<ul style="list-style-type: none">• Large• Cold• Gassy• Striped
Mars is full of iron oxide dust and basalt	Venus has a toxic atmosphere. Venus is very hot	Mercury is the closest planet to the Sun	Jupiter was named after a Roman god

Conference goals and objectives

Mercury is the closest planet to the Sun

Effect 01



Effect 04

Venus is the second planet from the Sun

Despite being red, Mars is a cold place

Effect 02



Effect 05

Jupiter is the biggest planet of them all

Saturn is a gas giant and has several rings

Effect 03



Effect 06

Earth is the planet on which we all live

Main goal



Question and answer

Question

Is Mercury the closest planet to the Sun
and the smallest one in the Solar System?
Note that it's a bit larger than the Moon

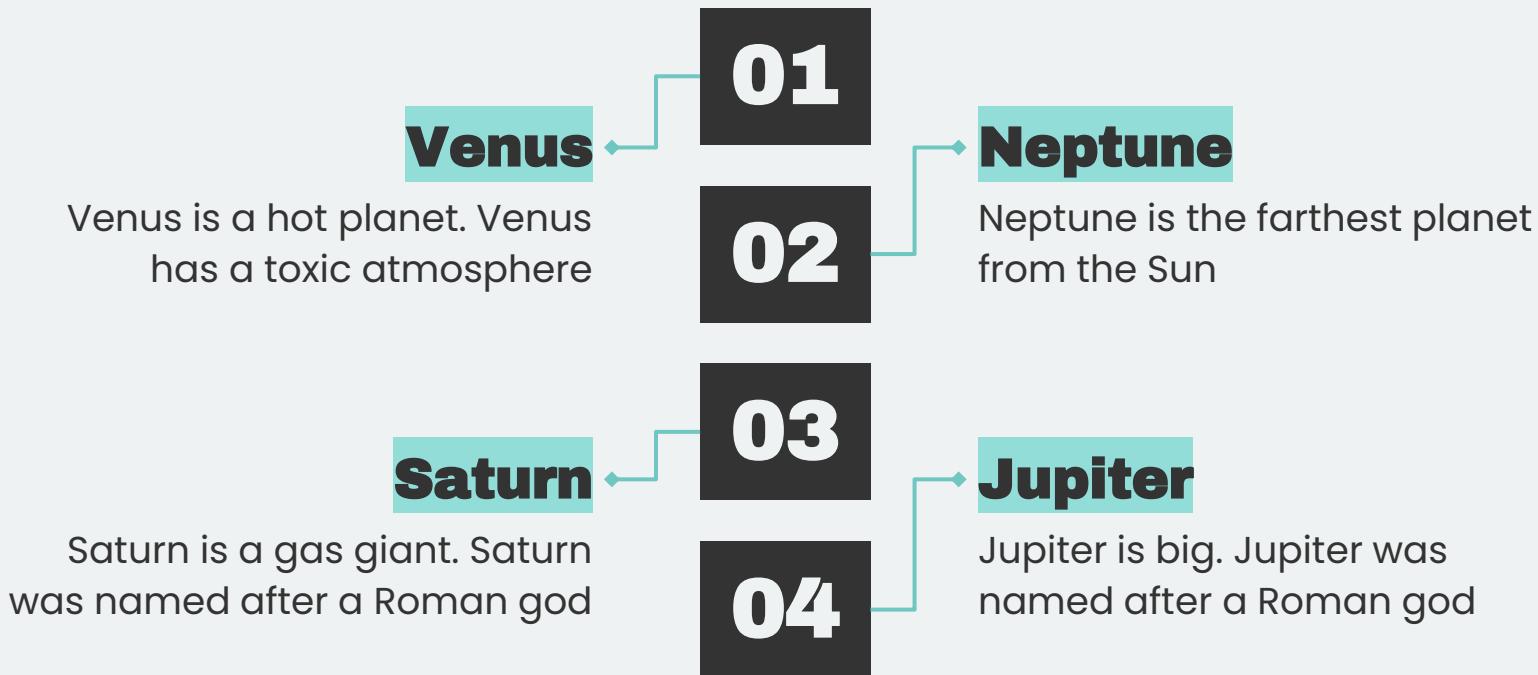


Answer

Venus has a beautiful name and is the
second planet from the Sun. It's hot and
has a poisonous atmosphere



Documenting conference timeline



Parts and whole

About the whole object

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

Parts of the object

Mercury

Mars

Saturn

Venus

Jupiter

What happens if the parts are missing?

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

What's the function of the parts?

Saturn is a gas giant and has several rings. It's composed mostly of hydrogen and helium

Effective public speaking

80%

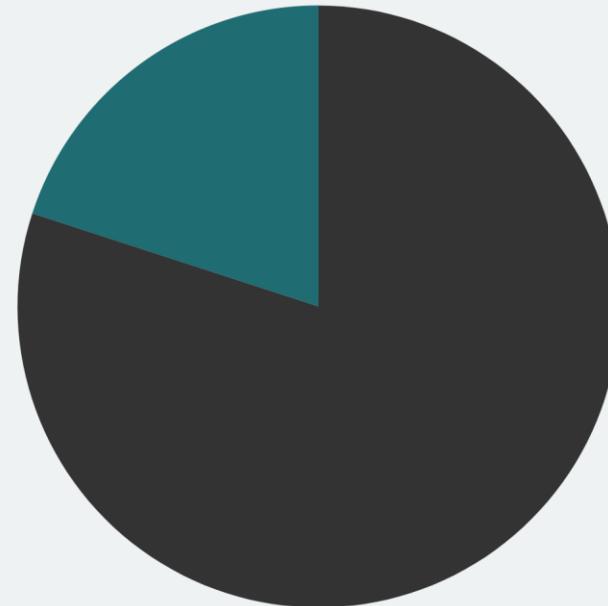
Persuasive speech

Neptune is the farthest planet from the Sun

20%

Visual aids

Jupiter was named after a Roman god



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

The best conference venues



Venus

Venus is the second planet from the Sun

Mars

Mars is full of iron oxide dust

Mercury

Mercury is the closest planet to the Sun

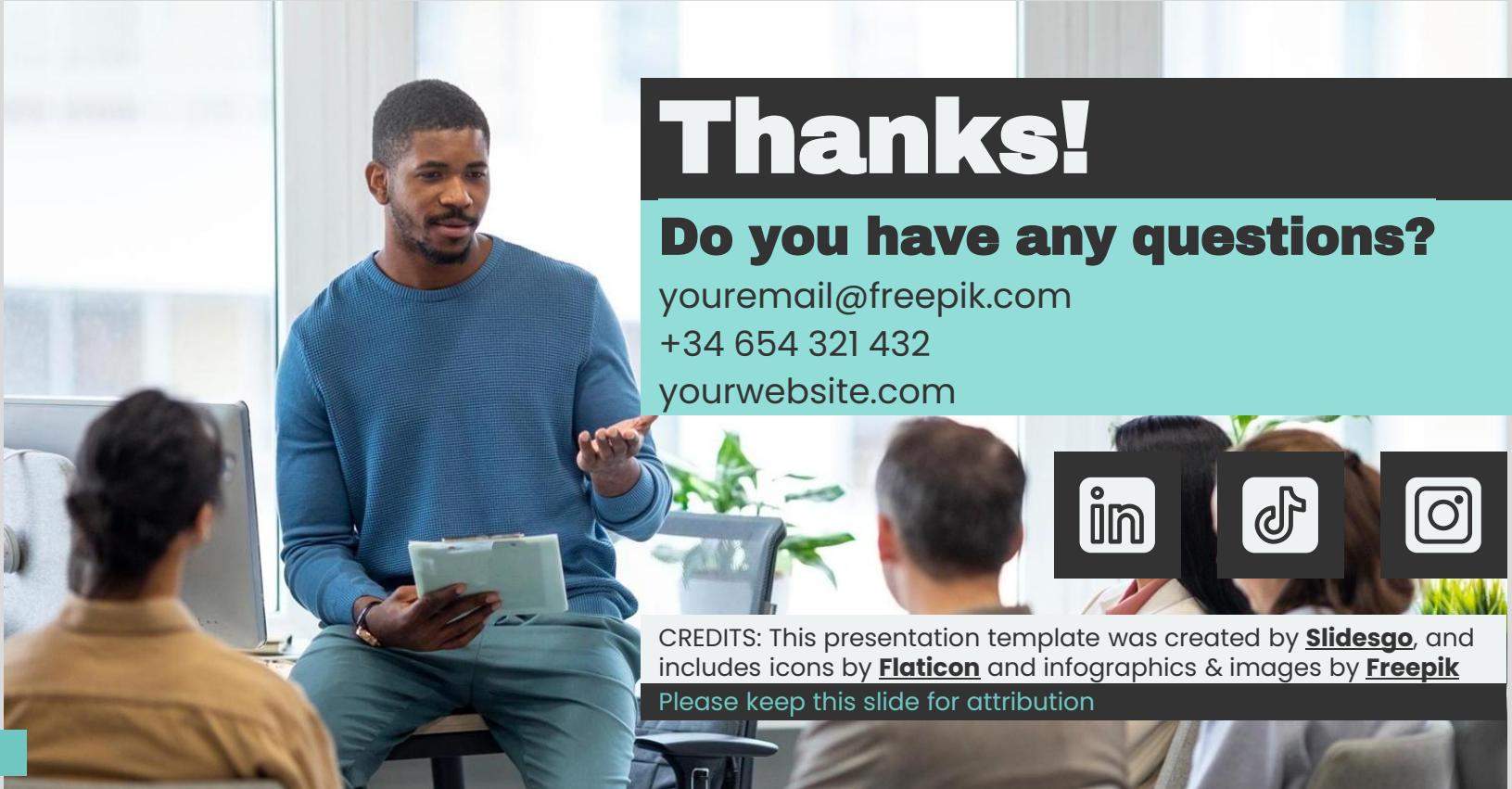
Mockups

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

Neptune
Neptune is the eighth planet from the Sun

Jupiter
Jupiter is big. Jupiter was named after a Roman god

student-led Conference
is where your presentation begins



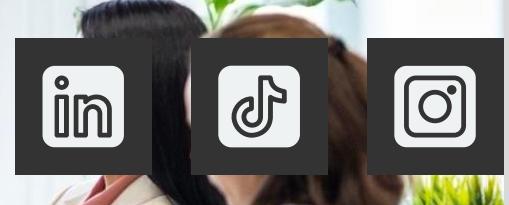
Thanks!

Do you have any questions?

youremail@freepik.com

+34 654 321 432

yourwebsite.com



CREDITS: This presentation template was created by [Slidesgo](#), and includes icons by [Flaticon](#) and infographics & images by [Freepik](#)
Please keep this slide for attribution

Alternative resources

Here's an assortment of alternative resources whose style fits the one of this template:

Photos

- People taking part of business event
- Empowered business woman working in the city I
- Empowered business woman working in the city II
- Medium shot colleagues learning at work
- People learning language at work full shot

- Close up colleagues learning at work
- Close up blurry people at event
- Medium shot people chatting at table
- Medium shot people learning language
- Close up people at business meeting
- Medium shot people at work meeting
- Medium shot smiley woman presentation
- People meeting at community center

Resources

Did you like the resources in this template? Get them for free at our other websites:

Photos

- Empowered business woman working in the city
- People taking part of business event
- Smiley woman having a video call at the office
- Medium shot man recording podcast indoors
- Medium shot women in business meeting
- Close up people learning at job
- People meeting at community center

- Business man holding a presentation in the office for her colleagues
- Press reporter fallowing leads in a case
- Close up people at work meeting
- Side view man singing at microphone
- Front view of man raising hand for question at a group therapy session
- Medium shot people learning together at office

Vectors

- Pack of blogger email template with photos

Instructions for use

If you have a free account, in order to use this template, you must credit Slidesgo by keeping the Thanks slide. Please refer to the next slide to read the instructions for premium users.

As a Free user, you are allowed to:

- Modify this template.
- Use it for both personal and commercial projects.

You are not allowed to:

- Sublicense, sell or rent any of Slidesgo Content (or a modified version of Slidesgo Content).
- Distribute Slidesgo Content unless it has been expressly authorized by Slidesgo.
- Include Slidesgo Content in an online or offline database or file.
- Offer Slidesgo templates (or modified versions of Slidesgo templates) for download.
- Acquire the copyright of Slidesgo Content.

For more information about editing slides, please read our FAQs or visit our blog:

<https://slidesgo.com/faqs> and <https://slidesgo.com/slidesgo-school>

Instructions for use (premium users)

As a Premium user, you can use this template without attributing Slidesgo or keeping the "Thanks" slide.

You are allowed to:

- Modify this template.
- Use it for both personal and commercial purposes.
- Hide or delete the "Thanks" slide and the mention to Slidesgo in the credits.
- Share this template in an editable format with people who are not part of your team.

You are not allowed to:

- Sublicense, sell or rent this Slidesgo Template (or a modified version of this Slidesgo Template).
- Distribute this Slidesgo Template (or a modified version of this Slidesgo Template) or include it in a database or in any other product or service that offers downloadable images, icons or presentations that may be subject to distribution or resale.
- Use any of the elements that are part of this Slidesgo Template in an isolated and separated way from this Template.
- Register any of the elements that are part of this template as a trademark or logo, or register it as a work in an intellectual property registry or similar.

For more information about editing slides, please read our FAQs or visit our blog:

<https://slidesgo.com/faqs> and <https://slidesgo.com/slidesgo-school>

Fonts & colors used

This presentation has been made using the following fonts:

Archivo Black

(<https://fonts.google.com/specimen/Archivo+Black>)

Poppins

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

#333333

#eff2f3

#70c7c1

#92ddd8

#1f6d72

#d9d9d9

Storyset

Create your Story with our illustrated concepts. Choose the style you like the most, edit its colors, pick the background and layers you want to show and bring them to life with the animator panel! It will boost your presentation. Check out [how it works](#).



Pana



Amico



Bro



Rafiki



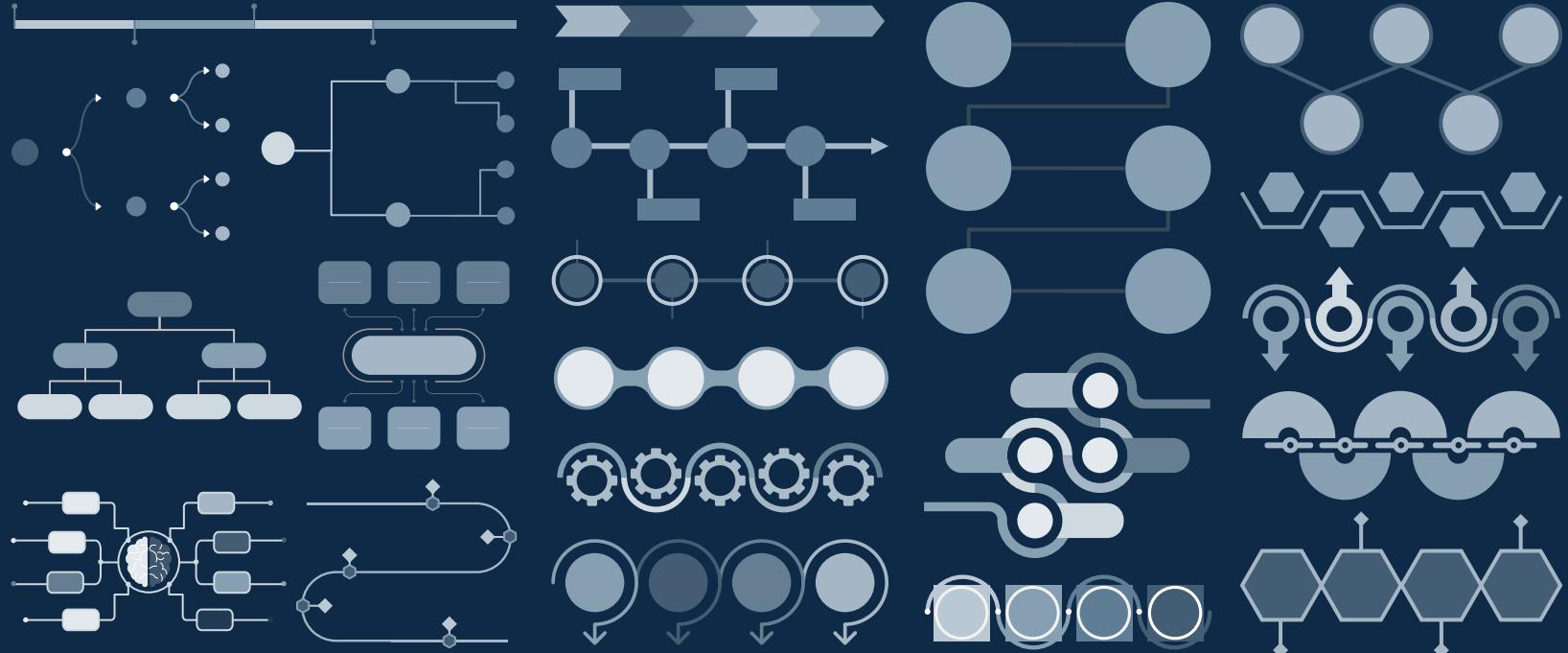
Cuate

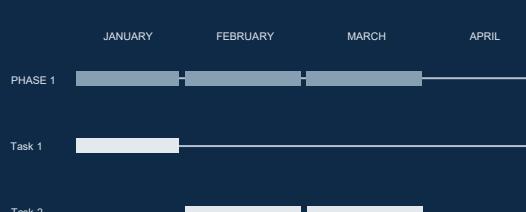
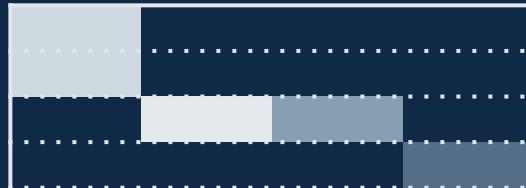
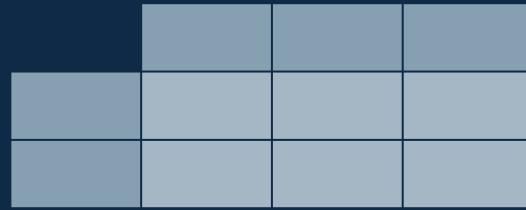
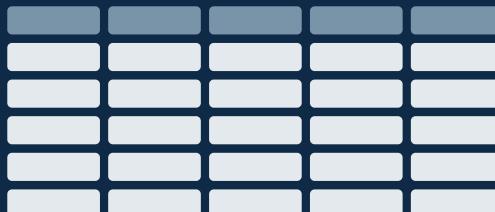
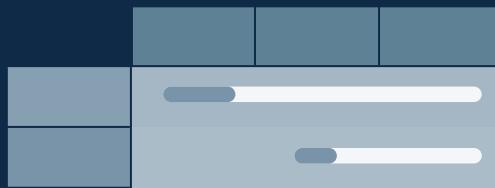
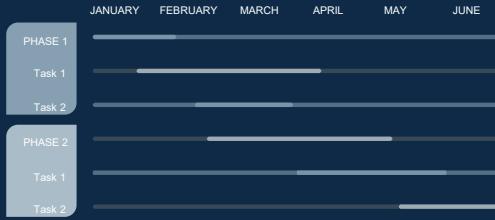
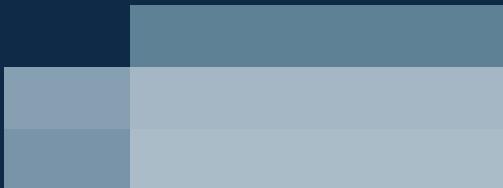
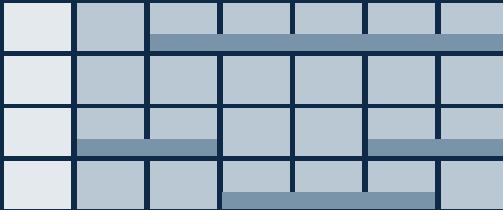
Use our editable graphic resources...

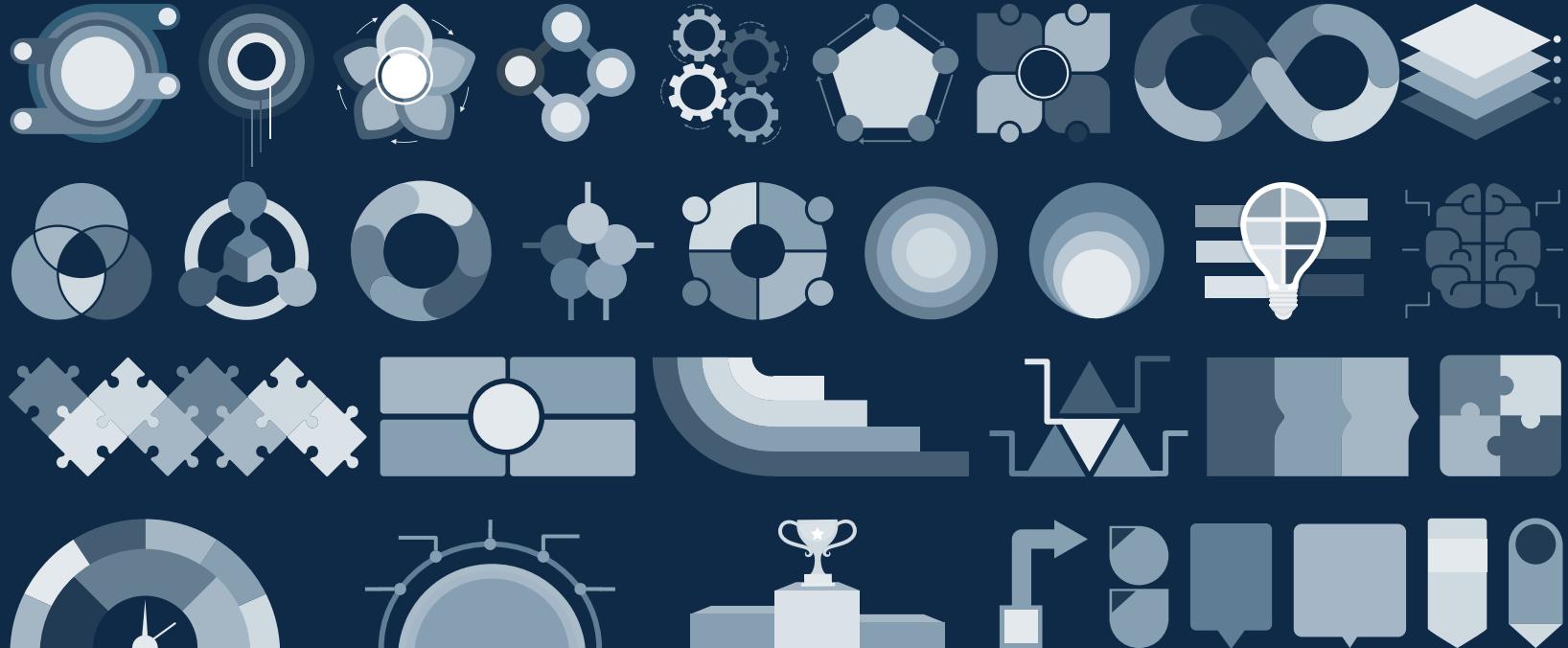
You can easily **resize** these resources without losing quality. To **change the color**, just ungroup the resource and click on the object you want to change. Then, click on the paint bucket and select the color you want. Group the resource again when you're done. You can also look for more **infographics** on Slidesgo.

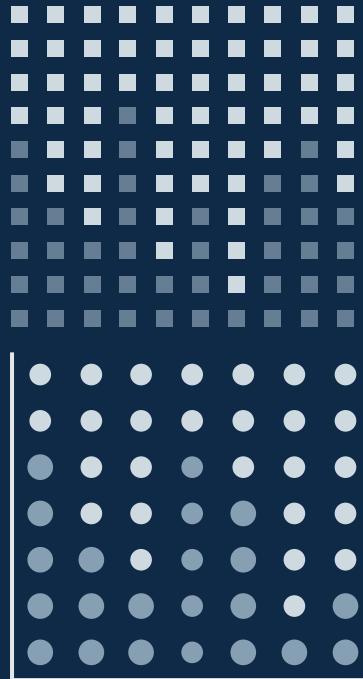












...and our sets of editable icons

You can **resize** these icons without losing quality.

You can **change the stroke and fill color**; just select the icon and click on the **paint bucket/pen**.

In Google Slides, you can also use **Flaticon's extension**, allowing you to customize and add even more icons.



Educational Icons



Medical Icons



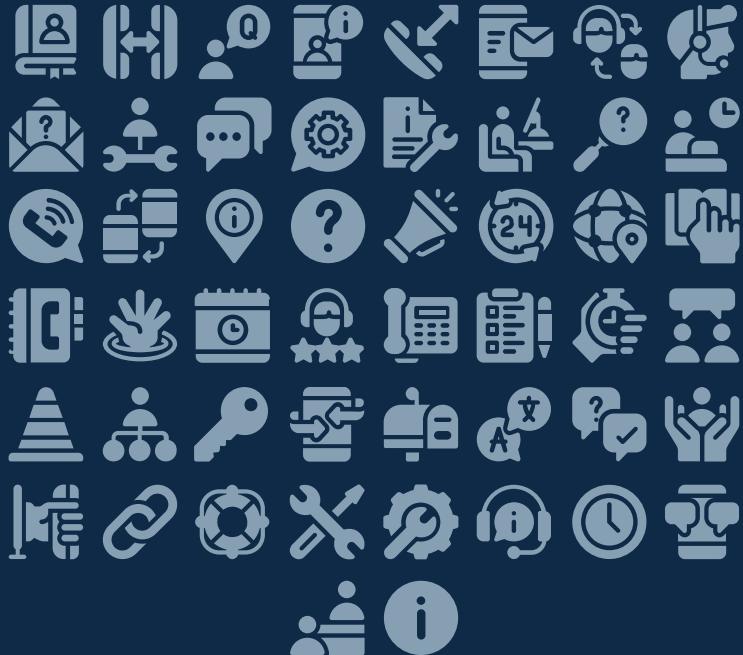
Business Icons



Teamwork Icons



Help & Support Icons



Avatar Icons



Creative Process Icons



Performing Arts Icons



Nature Icons



SEO & Marketing Icons



