

NEW YORK STOCK EXCHANGE

Payroll Tax Update Tracking

SFBU Spring 2024 Capstone Project

Our team



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MSCS

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BSCS

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MSCS

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MSCS



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01

Project overview

Problem

- Manually Check updates
- Hard to tell if tax form is changed
- Search around for basic payroll information

Solution

- Update Tracker and email notifications
- PDF Comparison
- Chatbot

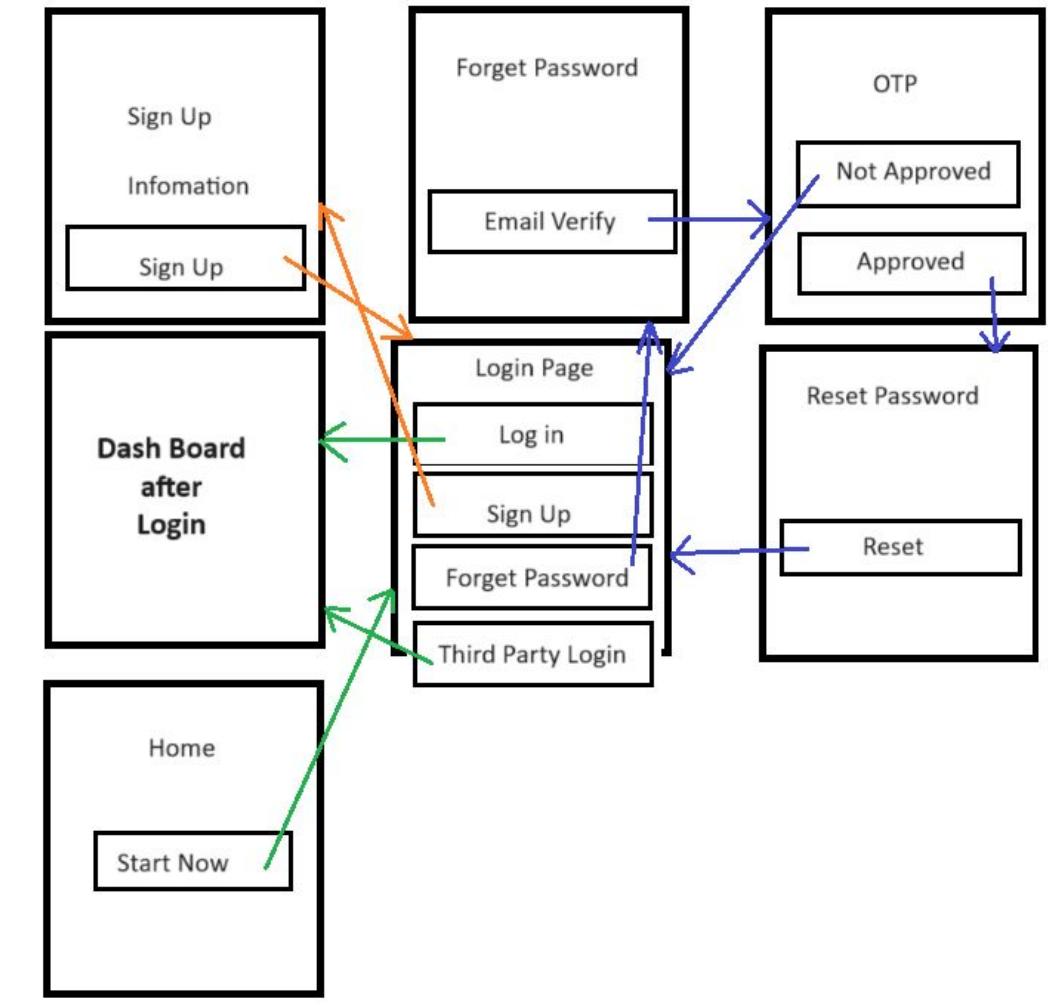


Project
System
Design

02

Login System

- ❑ Authentication and Verification Workflow
- ❑ Admin User Story



Welcome!

Learn more about how we can help you stay updated on tax changes.

Email

Password

Log In

[Forgot Password?](#) | [Sign Up](#)



Sign in with

Google

Glance of User Login System

Validations and Email Verify
Third party login, OTP

Functionality

Compare PDF



Update Tracking



Payroll Calculator



ChatBot





03 Update Tracking

What is covered?

- Federal Withholding Information Pages
- State Payroll Information Pages
- Any link to be tracked
- Email Notifications



Tracking Page

Welcome, SharonTestDemo | [Logout](#)

Federal News Releases

- <https://www.irs.gov/payments/tax-withholding>
- <https://www.irs.gov/publications/p15t>

Other Resources:

- Tax Withholding Estimator
- Form W4
- Form 941
- Form 940

State News Releases

- https://edd.ca.gov/en/payroll_taxes/rates_and_withholding/#collapse-8b5daed2-98c0-4b99-a8c2-610f75bfe230

Other Resources:

- Forms_and_Publications
- DE 4 – Employee's Withholding Allowance Certificate
- DE 9ADJ – Quarterly Contribution and Wage Adjustment Form
- Payment Information

URL Monitor

Monitor your own website:

[Start Monitoring](#)



PDF
Comparison

04

PDF Comparison page

Your AI PDF Assistant

Get More Done and Save Your Time ⚡

Source PDF:

Choose File

No file chosen

Target PDF:

Choose File

No file chosen

Upload



05 Payroll Calculator

Payroll Tax Updates Tracking

We put eyes on changes.

[Home](#)[Services](#)[Payroll Calculator](#)[Contact Us](#)[My Account](#)[Tax Calculator](#)

Federal Taxes

- Federal Income Tax
- FUTA Tax
- SSA Tax
- Medicare Tax
- Capital Gain Tax
- Estate Tax
- Gift Tax

Tax Calculator

Gross Income:

Filing Status:

Capital Gains Income:

Estate Value:

Gift Value:

Excise Tax:

Cigarettes Consumed:

Gasoline Volume (gallons):

State Taxes

- SDI Tax
- UI Tax
- ETT Tax
- Sales Tax
- Gasoline Tax
- Cigarette Tax

Our plans



Despite being red, Mars is a cold place. It's full of iron oxide dust, which gives the planet its reddish cast



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



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

06

ChatBot



CHATBOT CONFIGURATION

Choose Response Language

Default

By default, the response language is same as the input language.

Choose Voice

alloy



TaxTrack Payroll ChatBot

Hey there! Hope you are doing well today. Welcome to TaxTrack Payroll Chatbot.
I'm your personal assistant. How can I help you?

How are supplemental wages identified separately from regular wages?

Click to start or stop recording



How are supplemental wages identified separately from regular wages?



Supplemental wages are identified separately from regular wages when they are paid separately from regular wages, or when they are combined in a single payment and the amount of each is specified. This allows for different federal income tax withholding methods to be applied to supplemental wages, depending on whether income tax was withheld from the employee's regular wages in the current or immediately preceding calendar year.



CHATBOT CONFIGURATION

Choose Response Language

French

By default, the response language is same as the input language.

Choose Voice

nova



How are supplemental wages identified separately from regular wages?



Supplemental wages can be identified separately from regular wages by being paid at a different time than regular wages, or by being clearly labeled as a separate payment on the employee's pay stub or payroll records. If the supplemental wage is given to the employee at the same time as the regular wages, the sum of the payments should be treated as regular wages.



How withholding is determined and when to check withholding?



根据员工在W-4表上指定的申报状态和扣缴津贴数量确定预扣税款。他们不能仅指定扣缴金额。建议在一年初、税法变化时以及发生重大生活事件（如结婚、离婚、生育或收养孩子、购房、退休或申请破产）时检查预扣税款。此外，当工资收入、不受预扣税的应税收入、细目扣除或税收抵免发生变化时，检查预扣税款也很重要。



How is begin declaring tax, what form do I need to fill out?



La déclaration de revenus peut être commencée en rassemblant tous vos relevés de salaire et de revenus, vos relevés de compensation de chômage, ainsi que vos relevés d'intérêts, de dividendes et de retraite. Ensuite, vous avez plusieurs options pour préparer et déposer votre déclaration de revenus. Vous pouvez préparer la déclaration vous-même, voir si vous êtes admissible à une préparation gratuite de la déclaration de revenus, ou engager un professionnel de l'impôt pour préparer votre déclaration. Le formulaire à remplir dépend de votre situation spécifique, mais le formulaire 941 est mentionné dans le contexte comme un formulaire pour déclarer et verser tout revenu non déclaré, les cotisations de sécurité sociale et de Medicare. Si vous avez été avisé de déposer le formulaire 944 et que vous n'avez pas demandé et reçu un avis écrit de l'IRS pour déposer les formulaires trimestriels 941, alors vous n'avez pas besoin de déposer le formulaire 941 pour certains trimestres. Si vous avez besoin d'informations plus spécifiques, il est préférable de visiter IRS.gov ou de consulter un professionnel de l'impôt.



RUNNING...

Stop

Deploy

⋮

07

DEMO

Video Demo

Payroll Tax Updates Tracking

We put eyes on changes.

[Home](#)[Services](#)[Payroll Calculator](#)[Contact Us](#)[My Account](#)

Welcome!

Welcome to **PayrollTech**, the ultimate destination for simplifying your payroll management process. In today's fast-paced business world, staying on top of payroll updates is crucial for the smooth operation of your organization. We understand this necessity, which is why we've developed a comprehensive platform that not only tracks payroll updates efficiently but also offers tools for direct comparison of documents and an easy-to-use calculator.

Our service is designed to bring convenience and accuracy to your fingertips. With our real-time tracking system, you can instantly receive updates on the latest payroll changes, ensuring your business stays compliant and your employees are paid correctly and on time.

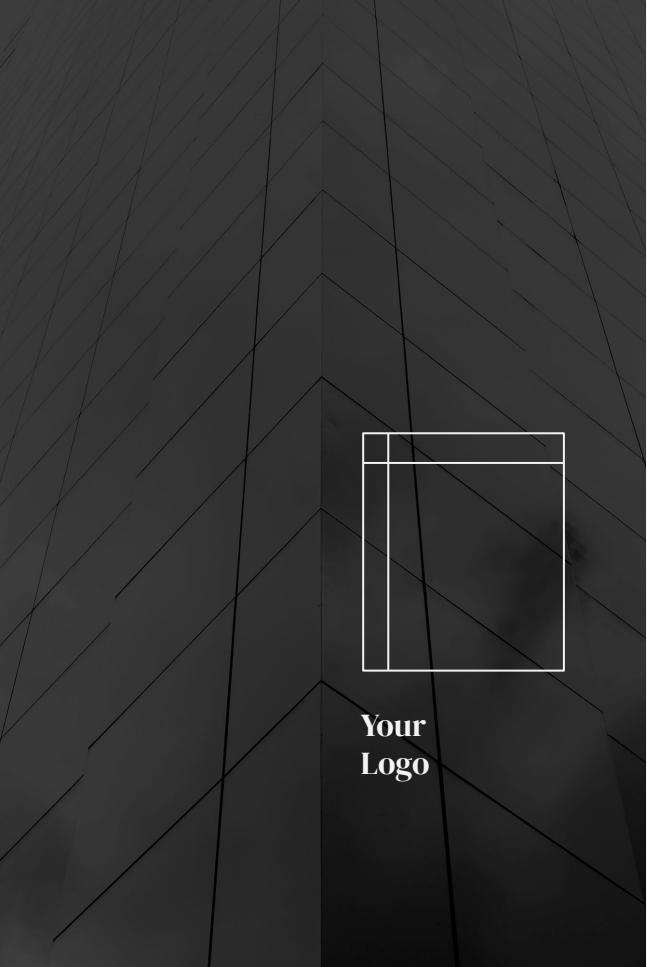


Thanks

Do you have any questions?

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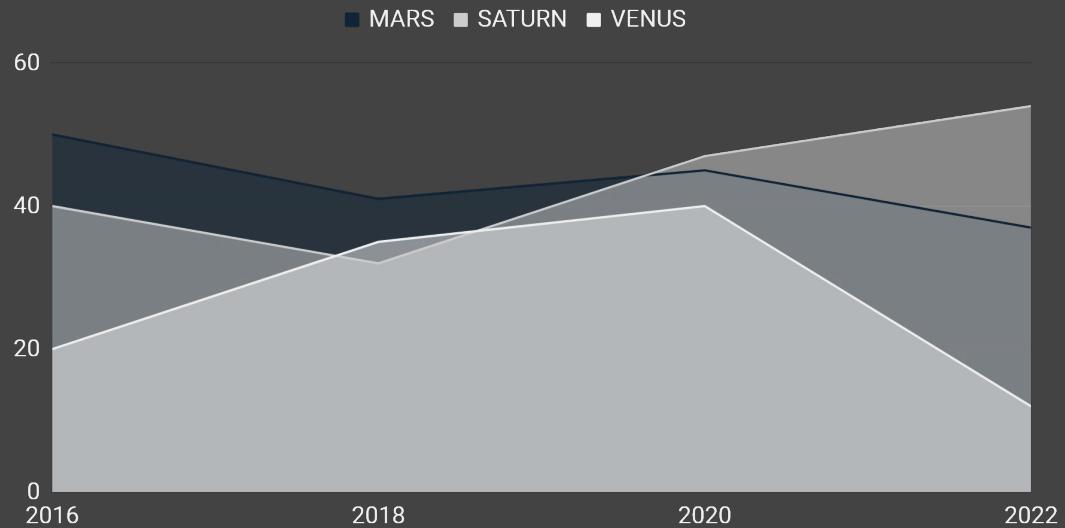


Our company

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

Market trends

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



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

Timeline

Week 11

Polish the current functions and Frontend, add email notification and continue to work on the Chatbot



Week 13

Integrate the project, Polish the current functions and Frontend and finish up the chatbot.
Decide with deployment method.



Week 14

Polished the project and try deployment.



Week 15

Get ready for Final

Chat
Bot



Competitors

Jupiter

It's a gas giant, the biggest planet in the Solar System and the fourth-brightest object in the night sky



Mars

Despite being red, Mars is a cold place. It's full of iron oxide dust, which gives the planet its reddish cast



Venus

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



Saturn

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





Them

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



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. It's the second-brightest natural object in the night sky after the Moon

Get to know us better



Mars

Despite being red, Mars is actually a very cold place



Jupiter

Jupiter is the biggest planet in the Solar System



Neptune

Neptune is the farthest planet from the Sun



Venus

Venus is the second planet from the Sun



Earth

Earth is the third planet from the Sun and has life



Mercury

It's the closest planet to the Sun and the smallest one

Our history



Jupiter

Jupiter is a gas giant and also the biggest planet



Venus

Venus has a beautiful name, but also high temperatures



Saturn

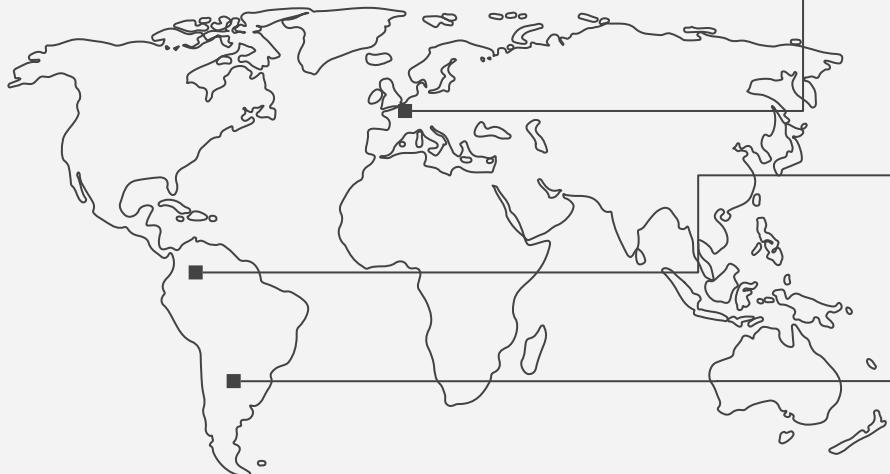
Saturn is composed mostly of hydrogen and helium



Mars

Despite being red, Mars is a very cold place

Locations



Mercury

Mercury is the closest planet to the Sun

Venus

Venus is the second planet from the Sun

Mars

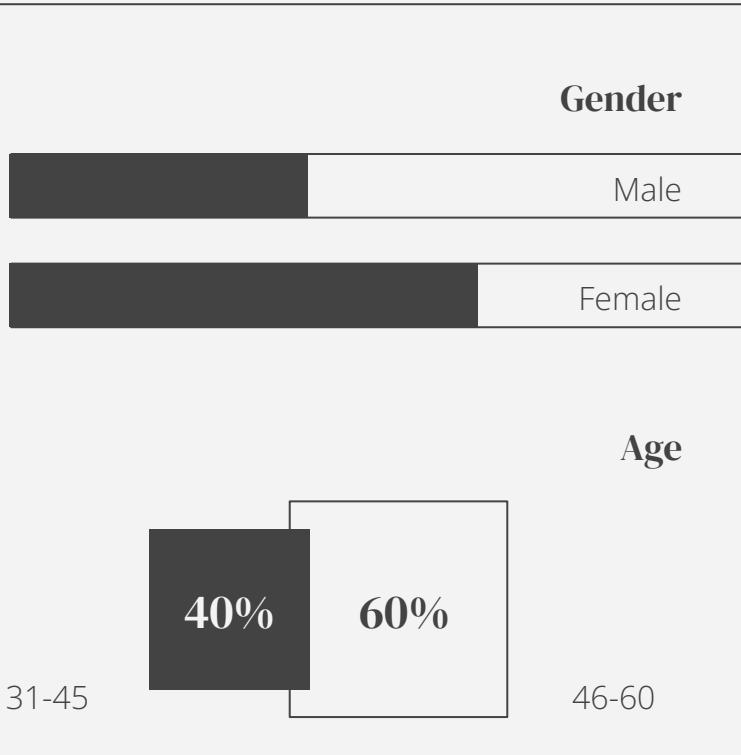
Mars is actually a very cold place



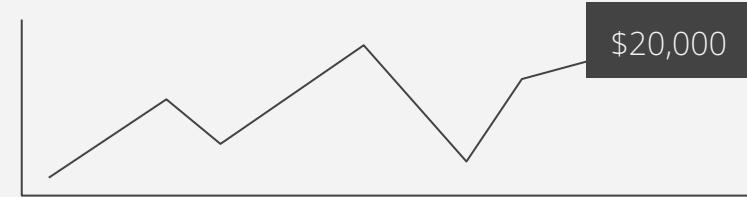
Market
analysis and
competition

02

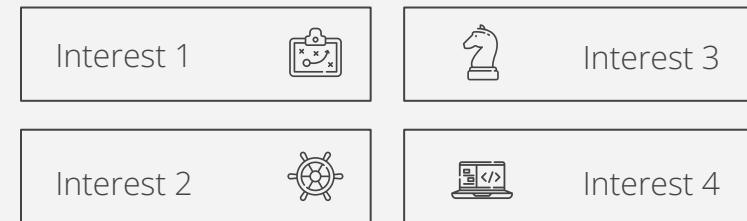
Target



Average spend per customer



Interests



Market size

20%

Saturn

5%

Mercury

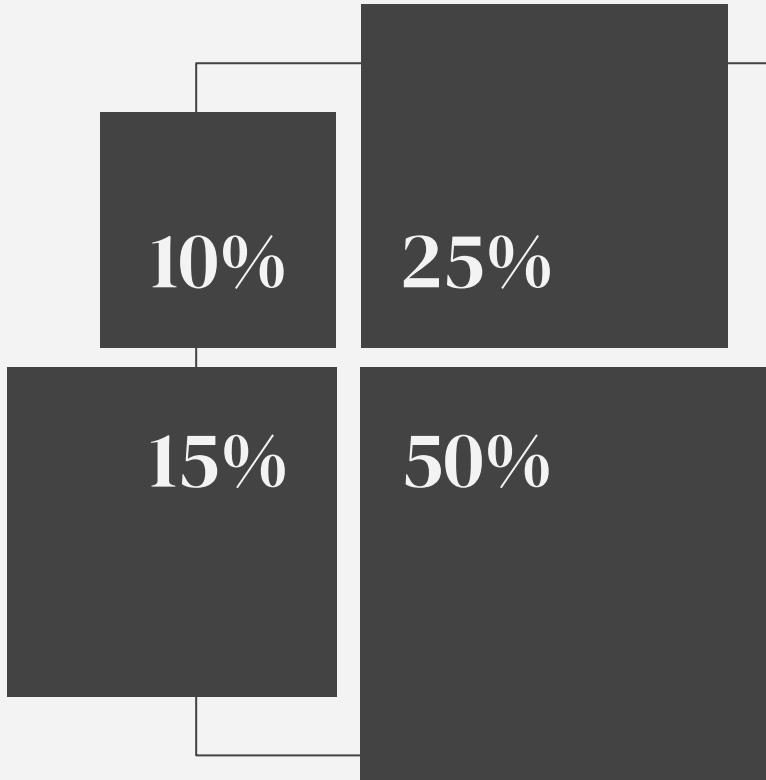
55%

Jupiter

20%

Neptune

Market share



Jupiter

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

Venus

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

Mars

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

Saturn

Saturn is a gas giant, composed mostly of hydrogen and helium

Whoa!

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

Competition analysis

	Jupiter	Mars	Venus	Mercury
Competitor 1	Yes	—	—	Yes
Competitor 2	—	Yes	—	—
Competitor 3	—	—	Yes	—

Our goals



Mercury

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



Mars

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



Jupiter

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



Earth

Earth is the third planet from the Sun and the only one that harbors life in the Solar System





A picture is worth a thousand words



03

Sales and marketing plan

Our services



Mercury

Mercury is the closest planet to the Sun



Jupiter

It's the biggest planet in the Solar System



Venus

Venus has a beautiful name, but also high temperatures



Saturn

Saturn is a gas giant and has several rings

Break-even analysis

High profit

Neptune is the farthest planet from the Sun

Profit

Saturn is composed of hydrogen and helium

Break-even point

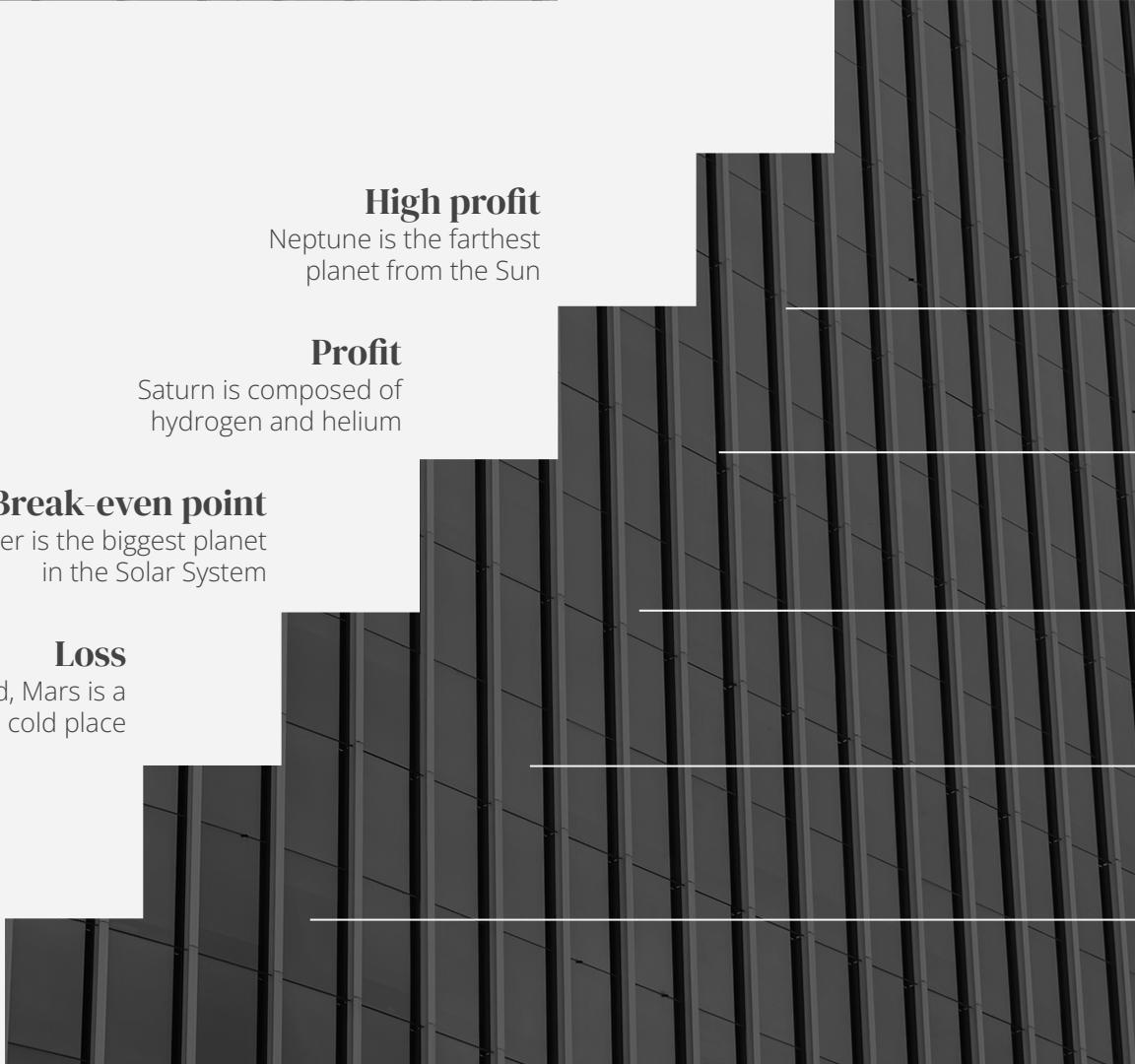
Jupiter is the biggest planet in the Solar System

Loss

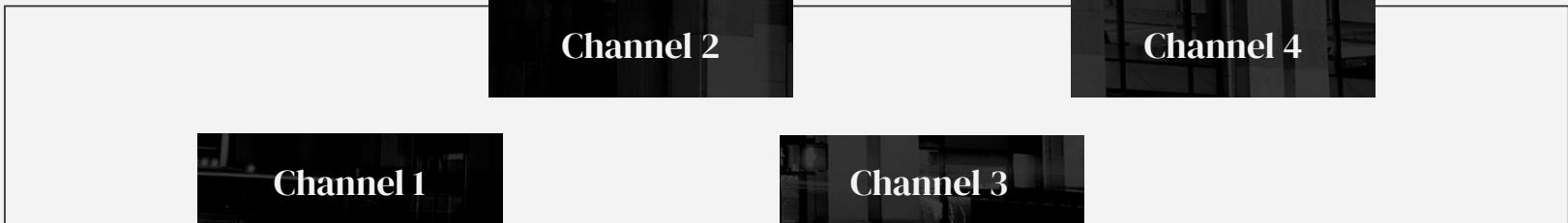
Despite being red, Mars is a cold place

Big loss

Mercury is the closest planet to the Sun



Sales and distribution



Advertising and promotion



Advertising

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

PR

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

Online

Despite being red, Mars is a cold place. It's full of iron oxide dust, which gives the planet its reddish cast



148,000

Big numbers catch your audience's attention



Management
plan

04

Our team



Mark Doe

You can replace the
image on the screen
with your own



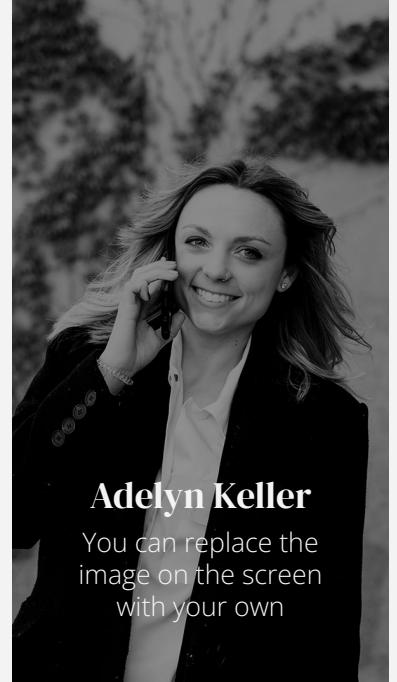
Adelyn Keller

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image on the screen
with your own



Charles Jones

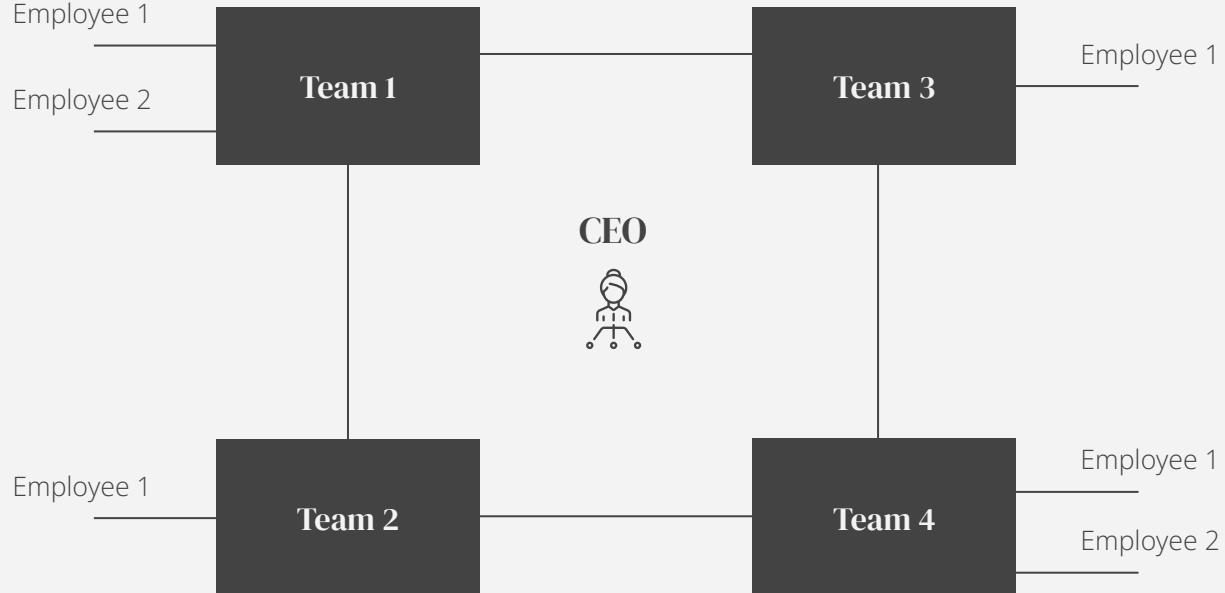
You can replace the
image on the screen
with your own



Adelyn Keller

You can replace the
image on the screen
with your own

Organizational chart



Our partners

Mercury

Mercury is the closest planet to the Sun



Venus

Venus has a beautiful name, but also high temperatures



Jupiter

It's the biggest planet in the Solar System



Saturn

Saturn is a gas giant and has several rings





Awesome words



05 Operating plan

Sales funnel: stages

Engage

Mars is actually a cold place

Capture

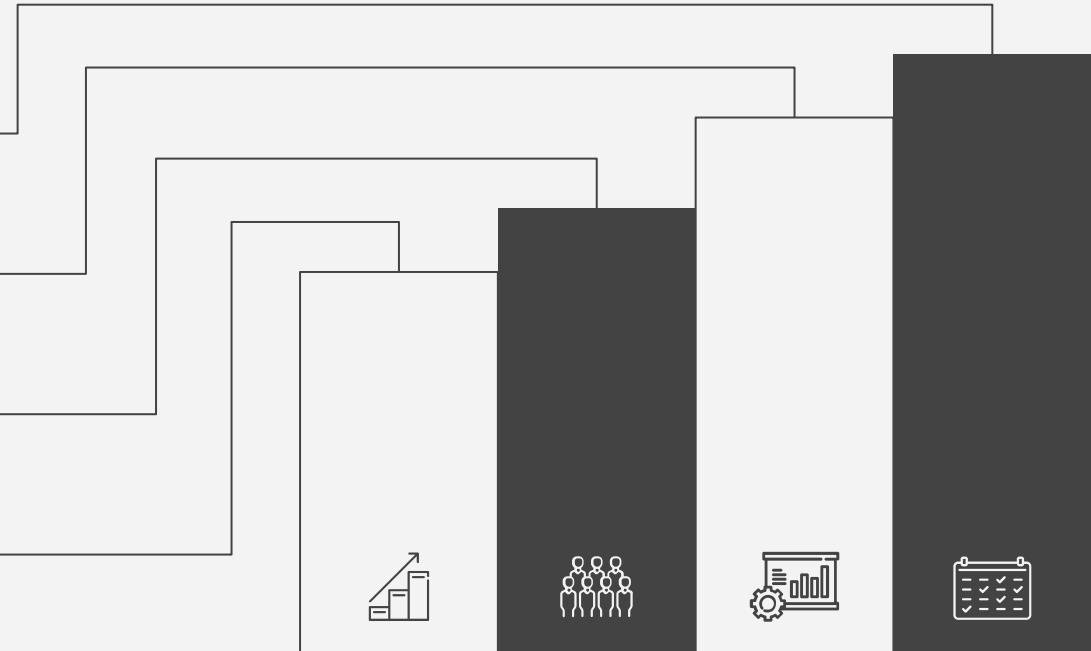
Saturn has a lot of rings

Close

Venus has a beautiful name

Grow

Neptune is far away from us



Schedule

Mars



Mars is actually a very cold place

Saturn



It's composed of hydrogen and helium

Venus



Venus is the second planet from the Sun

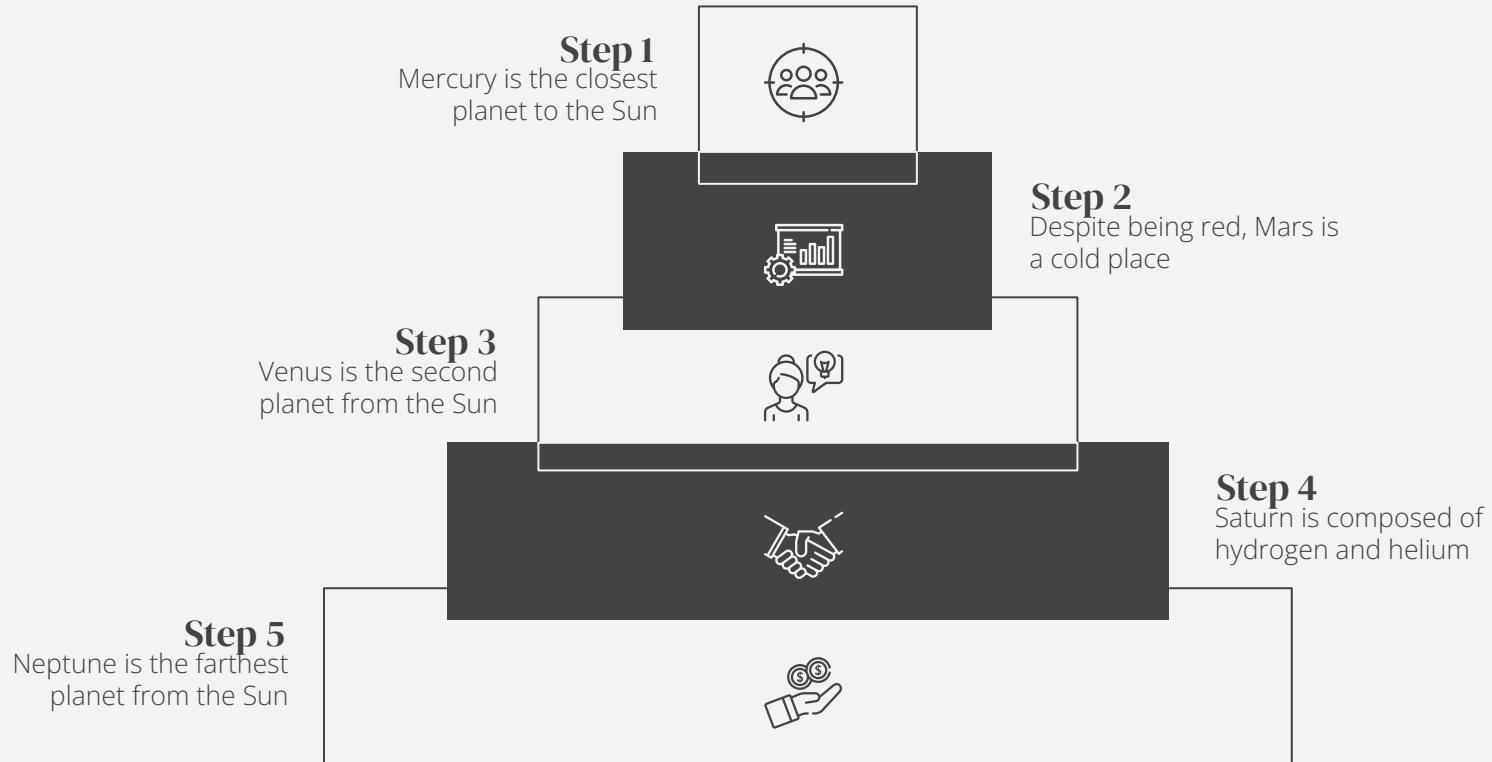
Neptune



It's the farthest planet from the Sun

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2			05
06	07	08	09	10	11	12
13				17	18	19
20	21	22	23			26
27		29	30	31		

Our process





Financial
plan

06

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

—**Someone Famous**

Predicted growth

\$150M
Mercury

Mercury is the
smallest planet in
the Solar System

50%
Saturn

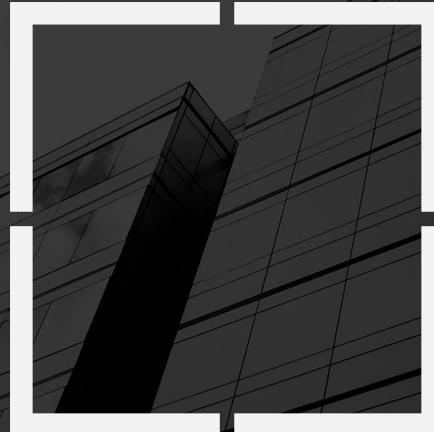
Saturn is composed
mostly of hydrogen
and helium

\$75M
Venus

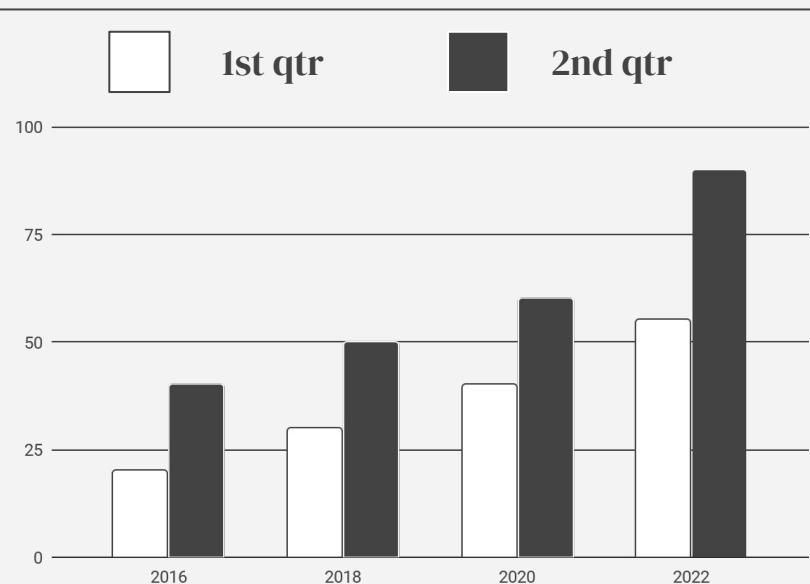
Venus has a
beautiful name, but
it's terribly hot

25%
Neptune

Neptune is the
farthest planet from
the Sun



Predicted growth



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

Mercury

It's the closest planet to the Sun and the smallest of them all

Mars

Despite being red, Mars is actually a cold place

Jupiter

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

Earth

Earth is the third planet from the Sun and harbors life

Balance sheet



Assets

What the company owns

1M



Liabilities

What the company owes

300K

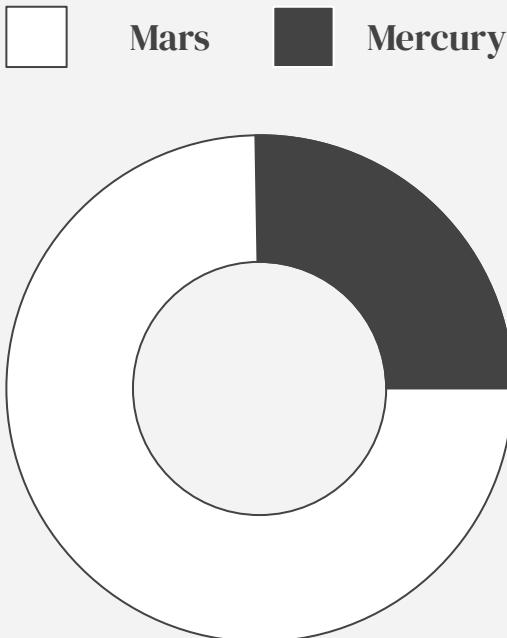


Equity

Difference between both

700K

Impact of risks



14,800

Total budget



75%

25%

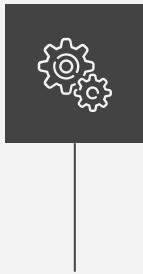
Mars

It's actually a cold place.
It's full of iron oxide dust

Mercury

It's the closest planet to
the Sun and the smallest

Conclusions



Mars

Despite being red, Mars is actually a cold place



Jupiter

It's the biggest planet in the Solar System



Saturn

Saturn is a gas giant and has several rings

07

Executive summary

You can enter a subtitle here if you need it

Our team



John Doe

You can speak a bit about
this person here

Jenna Smith

You can speak a bit about
this person here

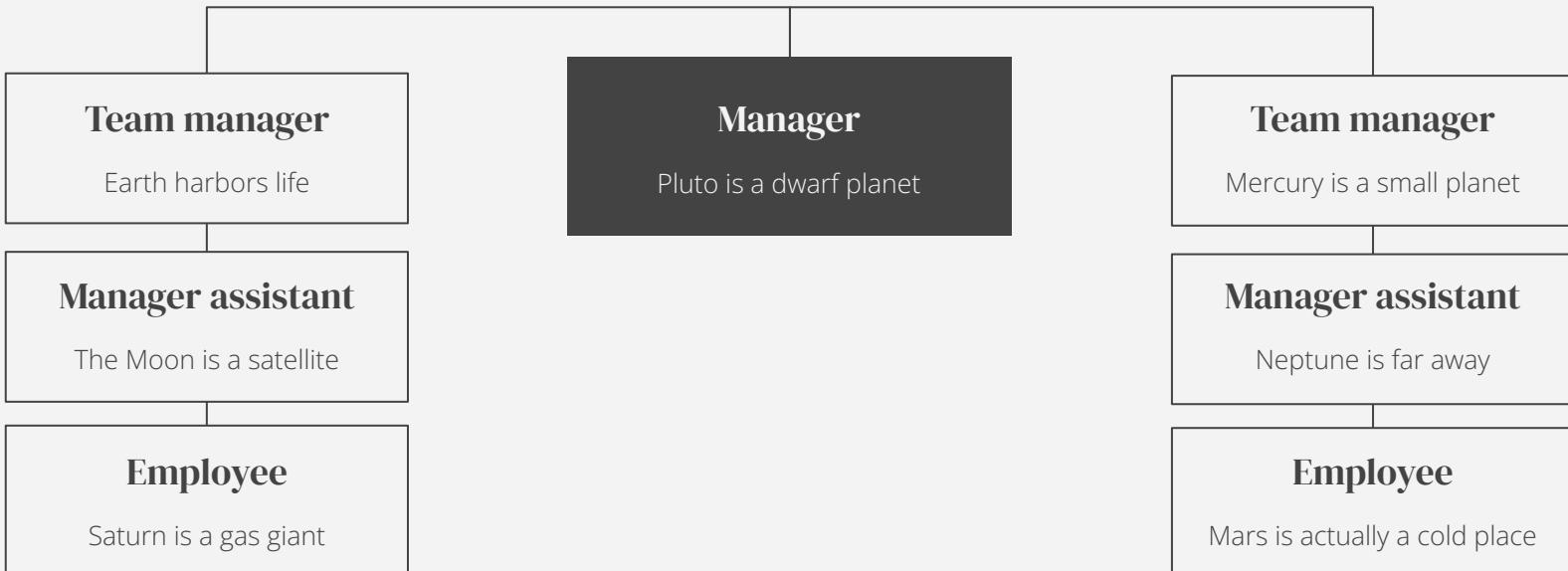
Susan Bones

You can speak a bit about
this person here

Jimmy Timmy

You can speak a bit about
this person here

Organizational chart



Our services

Jupiter

Jupiter is the biggest planet of them all



Neptune

It's the farthest planet from the Sun



Mars

Despite being red, Mars is a cold place



Earth

Earth is the third planet from the Sun



Saturn

Saturn is a gas giant and has several rings



Mercury

Mercury is the closest planet to the Sun





08

Company description

You can enter a subtitle here if you need it

About our company

Do you know what helps you make your point clear? Lists like this one:

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

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



Reviews



Timmy Jimmy

"Jupiter is a gas giant and the biggest planet of them all"

John James

"Saturn is a gas giant and has several rings"



Jenna Doe

"Despite being red, Mars is actually a cold place"

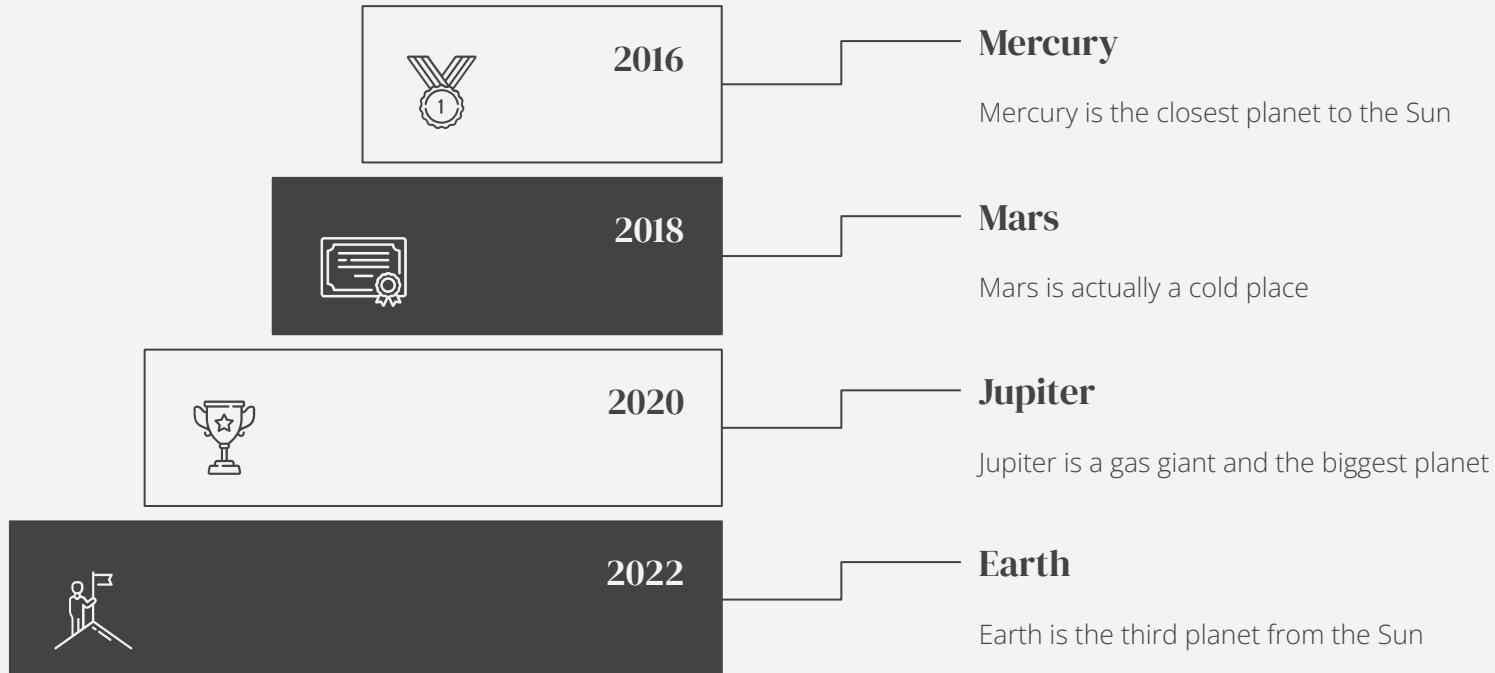
Helena Patterson

"Earth is the third planet from the Sun and harbors life"

Susan Bones

"Venus has a beautiful name, but also high temperatures"

Awards

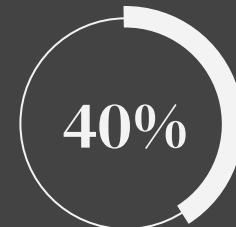


09

Request for funding

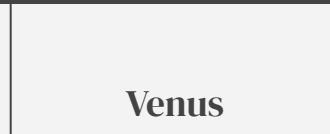
You can enter a subtitle here if you need it

Our budget



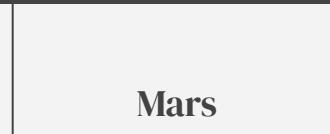
Mercury

It's the closest planet to the Sun and the smallest



Venus

Venus is the second planet from the Sun



Mars

It's actually a cold place.
It's full of iron oxide dust

Desktop software

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Thanks

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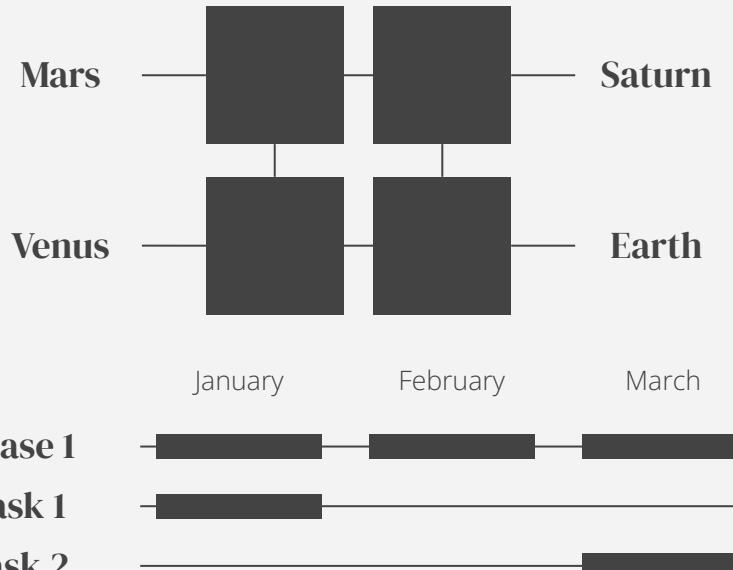
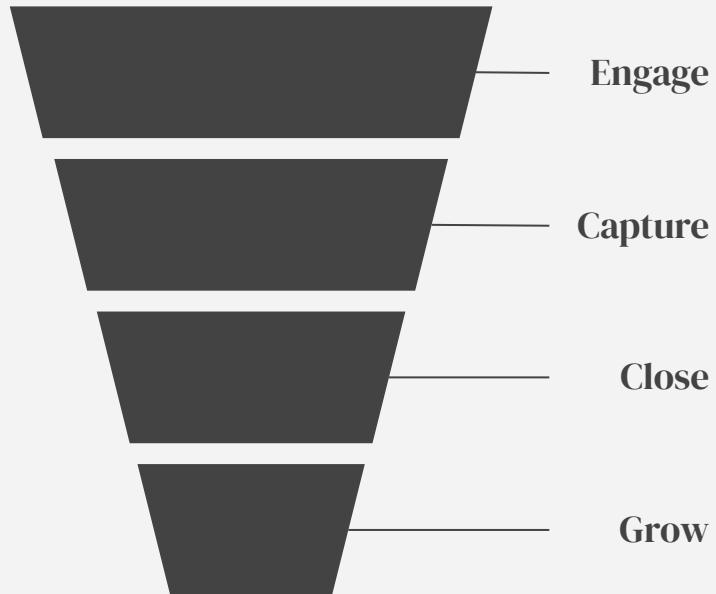
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Here's an assortment of alternative resources whose style fits that of this template:

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- Modern urban buildings view II
- Modern urban downtown view
- Nightlife city sparkles of light on the streets
- Creative aerial view of cityscape
- Low angle of apartment building in the city with copy space
- Low angle of residential building in the city with copy space
- Low angle of apartment building
- Streetlamp in the city against skyscrapers
- Low angle of tall building in the city
- Modern business center building in a sunny day
- Modern city with buildings in daylight
- Downtown business district building contemporary design
- Low angle high-rise buildings
- Modern business buildings at night

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- Low angle view with grandiose buildings
- Low angle building with glass design
- Skyscrapers and blue sky with clouds
- Low angle view glass designed building
- Close-up building with opened window
- Low angle buildings with glass design
- Low angle view of city skyline
- Low angle modern buildings skyline
- Low angle glass designed skyscrapers
- Close-up glass designed building
- Modern buildings skyline view
- Lights from cars on background of historic building
- Low angle tall buildlings view
- High angle tall glass building
- Medium shot smiley man posing outdoors
- Businesswoman making phone call outdoors
- Smiling portrait of a young businessman with hands in his pocket looking at camera
- Low angle tall building with many windows
- Low angle view of skyscrapers
- Low angle tall buildings view
- New york stock exchange and buildings of wall street

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- Complex aerial view of cityscape
- Abstract city building shadows I
- Brutalist inspiration architecture background
- City background panoramic view
- Glass building at sunrise
- Postmodern office buildings with glass facade I
- Smiling man with crossed arms
- Business man smiling portrait
- Beautiful business woman holding mock-up
- Front view of elegant businesswoman holding clipboard with copy
- Modern business center building in a sunny day
- Postmodern office buildings with glass facade II
- View of freedom tower with oculus fin
- Abstract city building shadows II

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Pana



Amico



Bro



Rafiki



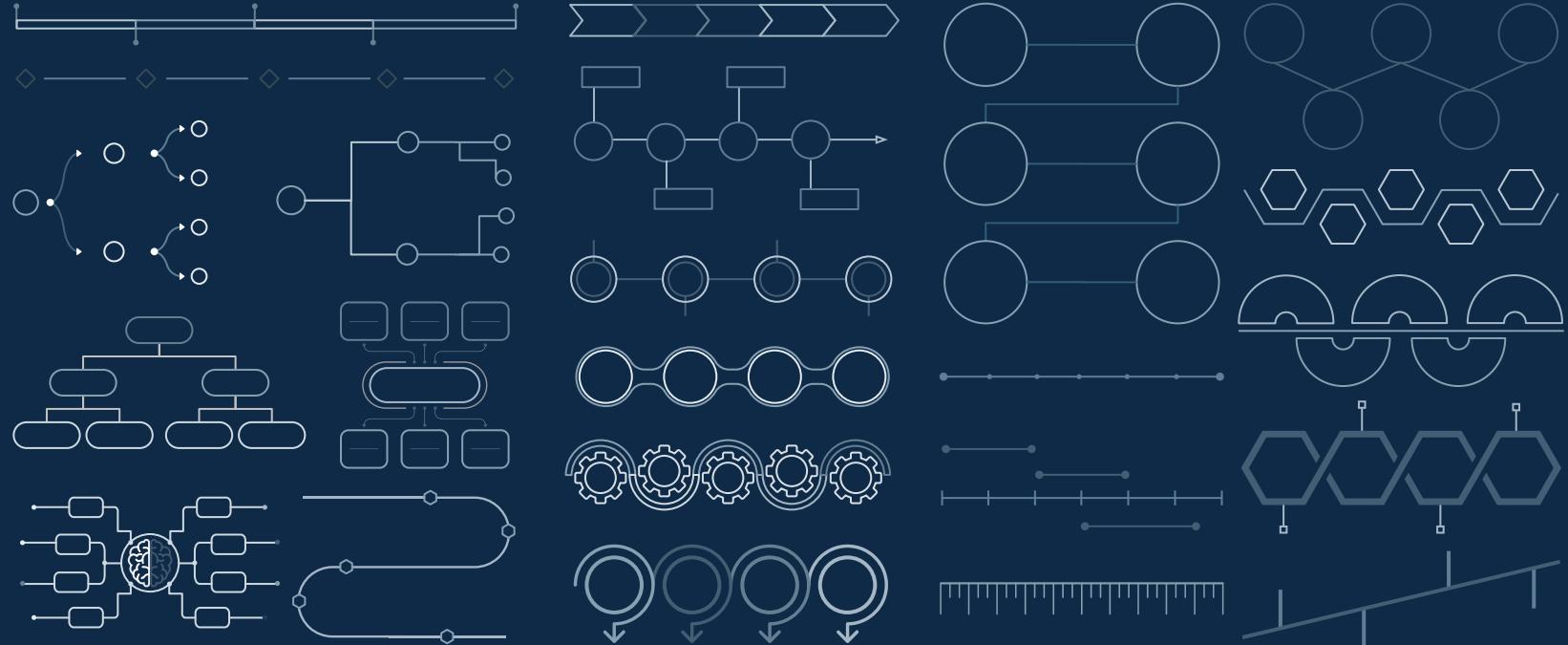
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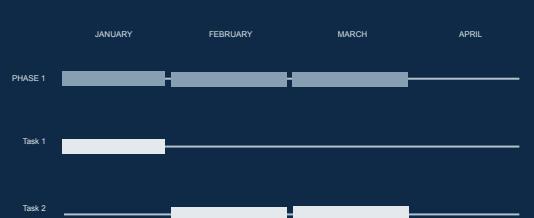
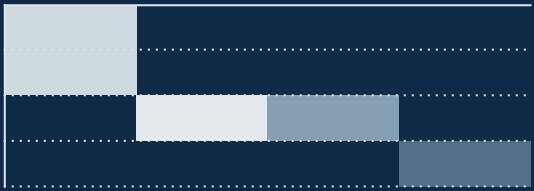
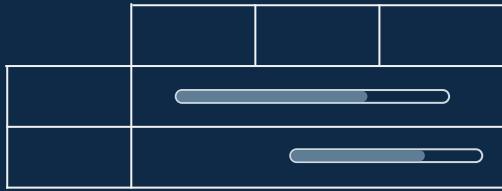
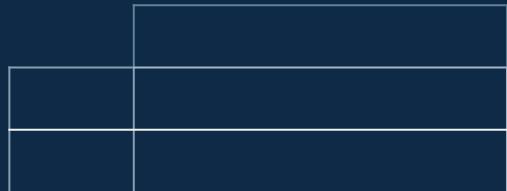
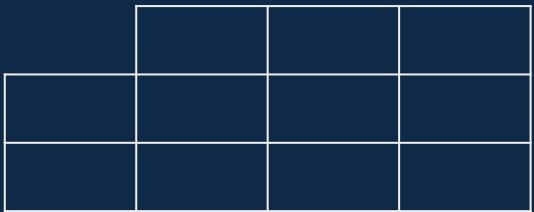
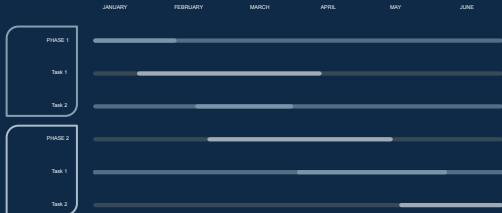
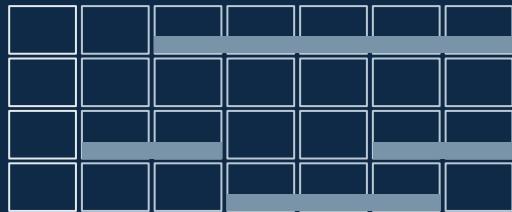
Use our editable graphic resources...

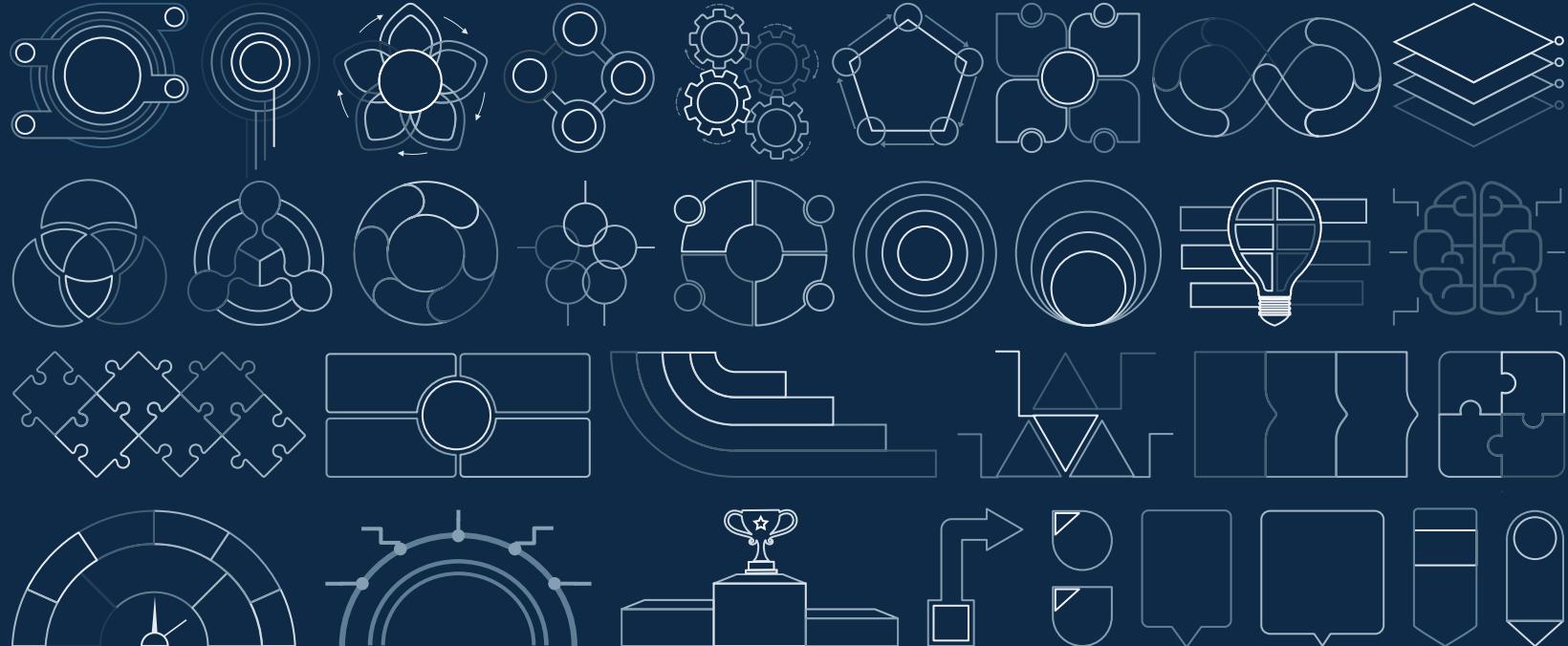
You can easily resize these resources without losing quality. To change the color, just ungroup the resource and click on the object you want to change. Then, click on the paint bucket and select the color you want. Group the resource again when you're done. You can also look for more infographics on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

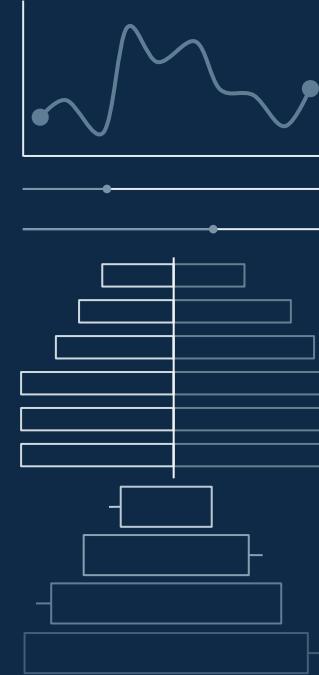
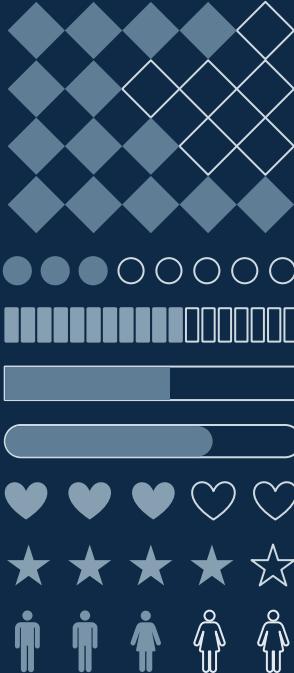
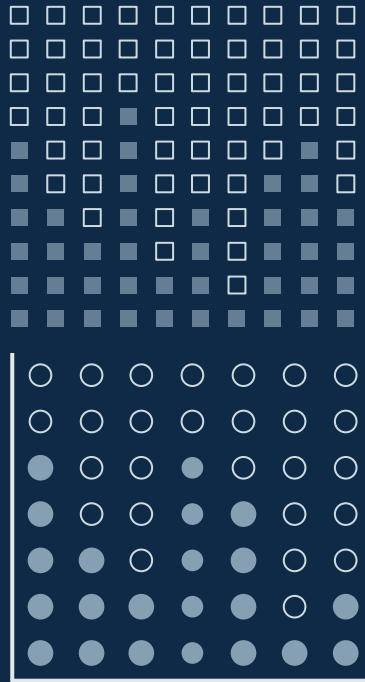












...and our sets of editable icons

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



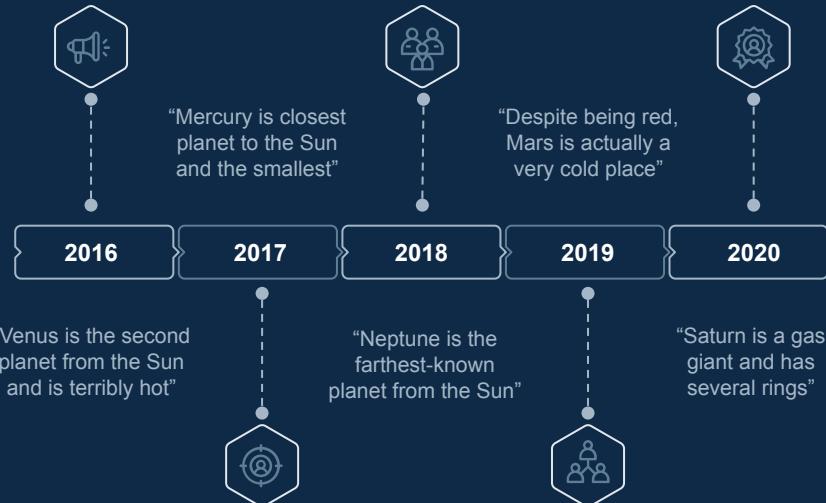
Nature Icons



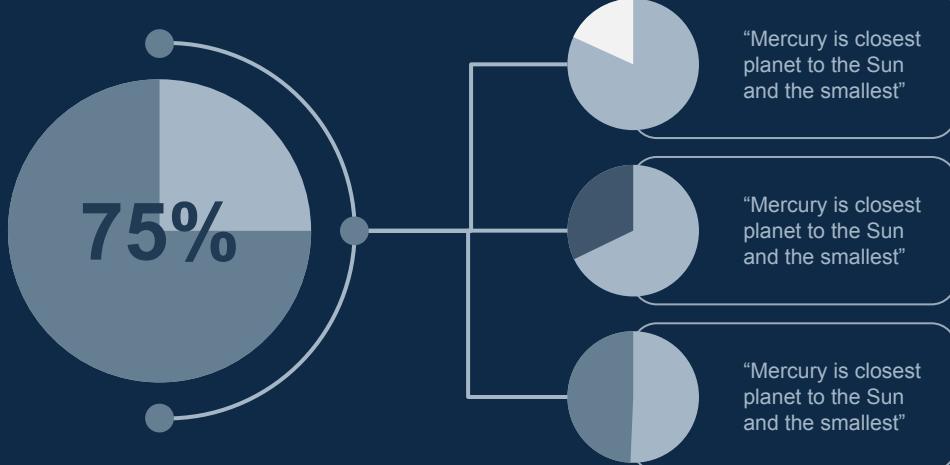
SEO & Marketing Icons



Premium infographics



Premium infographics



Premium Icons

Digital Marketing



Premium Icons

Online Learning



Premium Icons

Laboratory



Premium Icons

Goals & Results



Premium Icons

Infographic Elements





Retrieve Federal Withholding Data From Database

```
20 # This function fetches tax brackets based on the filing status
21 def get_tax_brackets(filing_status):
22     if filing_status == "Single":
23         single_Filing = db.SingleFiler.find()
24         # Assuming your database has a collection that is named after filing statuses
25         tax_brackets_collection = db.SingleFiler
26     elif filing_status == "Married Filing Joint":
27         tax_brackets_collection = db.MarriedFiler
28     elif filing_status == "Head of Household":
29         tax_brackets_collection = db.HOHFiler
30
31     # Fetch all documents within the collection
32     tax_data_cursor = tax_brackets_collection.find({})
33
34     # Convert cursor to a list of dictionaries and transform for easy access
35     tax_data = []
36     for document in tax_data_cursor:
37         bracket = document['income_bracket']
38         calculation = document['tax_calculation']
39         tax_data.append({
40             'from': bracket['from'],
41             'to': bracket['to'],
42             'tax_rate_percentage': document['tax_rate_percentage'],
43             'base_tax': calculation['base_tax'],
44             'additional_rate_percentage': calculation['additional_rate_percentage'],
45             'income_threshold': calculation['income_threshold'],
46         })
47
```



Retrieve Federal SS and Medicare Data From Database

```
def get_social_security_and_medicare_data():
    collection = db.OtherRates
    # Assuming there is a document with identifiers or categories for these rates
    data = collection.find_one({"_id": ObjectId('6618828527586af1b78bef19')}) # Replace with the

    social_security_data = data.get('Social_Security', {})
    medicare_data = data.get('Medicare', {})

    return {
        'social_security_rate': social_security_data.get('rate_percentage', 0),
        'social_security_wage_base_limit': social_security_data.get('wage_base_limit', 0),
        'medicare_standard_rate': medicare_data.get('standard_rate_percentage', 0),
        'medicare_additional_rate': medicare_data.get('additional_rate_percentage', 0),
        'medicare_threshold': medicare_data.get('threshold', 0)
    }
```

Calculate Federal Withholding Tax

```
def calculate_federal_taxes(paycycle, income_cycle, allowance, additional_Allowance, filing_status):
    deductions_Allowance = 4300
    tax_data = get_tax_brackets(filing_status)
    allowance_Amt = allowance * deductions_Allowance
    gross_income = income_cycle * paycycle
    taxable_income = gross_income - allowance_Amt - additional_Allowance

    # Calculate tax based on withholding tax brackets
    for data in tax_data:
        if (taxable_income > data['from'] and taxable_income < data['to']) or (taxable_income > data['from'] and data['to'] == 'null'):
            withhold_tax = data['base_tax'] + (taxable_income - data['income_threshold']) * data['additional_rate_percentage']
        else:
            break

    # Calculate the social Security and Medicare tax
    social_security_and_medicare_data = get_social_security_and_medicare_data()
    social_security_rate = social_security_and_medicare_data['social_security_rate']
    social_security_wage_base_limit = social_security_and_medicare_data['social_security_wage_base_limit']
    medicare_standard_rate = social_security_and_medicare_data['medicare_standard_rate']
    medicare_additional_rate = social_security_and_medicare_data['medicare_additional_rate']
    medicare_threshold = social_security_and_medicare_data['medicare_threshold']
    social_security_tax = min(gross_income, social_security_wage_base_limit) * social_security_rate
    medicare_tax = 0
    if gross_income > medicare_threshold:
        medicare_tax = (gross_income - medicare_threshold) * medicare_additional_rate + medicare_threshold * medicare_standard_rate
    else:
        medicare_tax = gross_income * medicare_standard_rate

    return {
        'withholding_tax': round(withhold_tax/paycycle, 2),
        'social_security_tax': round(social_security_tax/paycycle, 2),
        'medicare_tax': round(medicare_tax/paycycle, 2)
    }
```

2024 Federal Tax Data

+ ADD DATA ▾ EXPORT DATA ▾ UPDATE DELETE

1 - 7

- 2024FederalTaxData
 - HOHFile
 - MarriedFiler
 - OtherRates
 - SingleFiler**
- admin
- capstone2024spring
- config
- local
- user_login_system
 - otp_collection
 - users

_id: ObjectId('66187b2327586af1b78bef07')
tax_rate_percentage : 10
income_bracket : Object
from : 0
to : 11600
tax_calculation : Object
base_tax : 0
additional_rate_percentage : 10
income_threshold : 0

_id: ObjectId('66187b2327586af1b78bef08')
tax_rate_percentage : 12
income_bracket : Object
from : 11601
to : 47150
tax_calculation : Object
base_tax : 1160
additional_rate_percentage : 12
income_threshold : 11600

_id: ObjectId('66187b2327586af1b78bef09')
tax_rate_percentage : 22
income_bracket : Object