

# Chicago Bird Diversity



## The Data Sleuths

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Repository: <https://github.com/uic-cs418/group-project-the-data-sleuths.git>



# Chicago Bird Diversity

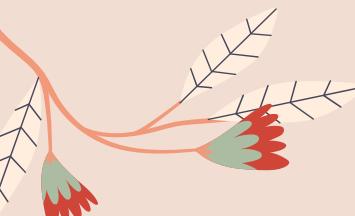
The project explores the relationship between socio-economic indicators and bird diversity in Chicago communities.

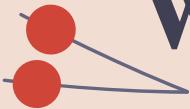


## Why care about urban Biodiversity

Higher biodiversity leads to a healthier ecosystem

A healthy ecosystem provides many benefits to the community, including Nutrient cycling, Pest and disease control and Mental wellness





# Why we chose this problem ?

Birds are a great indicator of the health of our environment.

There is a lot of easily accessible data on birds compared to other wildlife

Understanding how and why wildlife is distributed can help urban planners design neighborhoods that best supports the ecosystem.

## How will it help stakeholders

We believe we can inform valuable insights and assistance to the Chicago City Government, Urban Planners to help them understand which areas are experiencing the most significant declines in bird diversity can help policymakers prioritize conservation efforts, allocate resources effectively, and implement targeted policies to mitigate the decline in biodiversity.

Nonprofit Organizations can use the data and insights provided by our project to engage communities in bird conservation efforts and raise awareness about the importance of biodiversity.





# Hypothesis

Is bird diversity decreasing  
in Chicago.

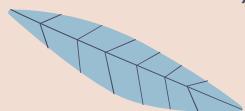


# Dataset



## North U.S. Census Bureau–Socioeconomic 2008–12

The dataset contains bird observation data in Illinois between 2008- 12 at the level of individual observation points defined by latitude and longitude coordinates and attributes such as common name, scientific name, native status, count, observation date.



## South Cornell Lab of Ornithology- eBird Basic Dataset

A geometry dataset which contains the boundary shape details of all Chicago communities



# Table of contents

01

## Features

You can describe the topic of the section here

03

## Conservation

You can describe the topic of the section here

02

## Main refuges

You can describe the topic of the section here

04

## Recovery plan

You can describe the topic of the section here





01

## Features

You can enter a subtitle  
here if you need it



# The slide title goes here!

Do you know what helps you make your point clear?

Lists like this one:

1. They're simple
2. You can organize your ideas clearly
3. You'll never forget to buy milk!

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

# Features



## Mercury

It's the closest planet to the Sun and the smallest one in the Solar System



## Venus

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

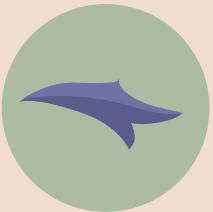


## Mars

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

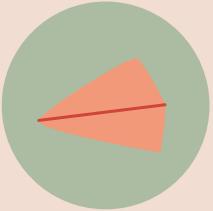


# Types of beaks



## Mercury

Mercury is the closest planet to the Sun



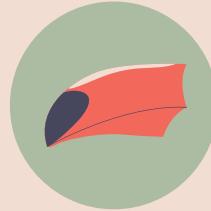
## Jupiter

Jupiter is the biggest planet of them all



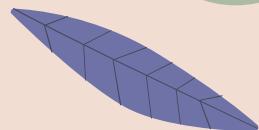
## Venus

Venus is the second planet from the Sun



## Saturn

It's composed of hydrogen and helium



# Tropical birds



## Mercury

Mercury is the closest planet to the Sun



## Jupiter

Jupiter is the biggest planet of them all



## Venus

Venus is the second planet from the Sun



## Saturn

It's composed of hydrogen and helium



## Mars

Mars is actually a very cold place



## Neptune

It's the farthest planet from the Sun

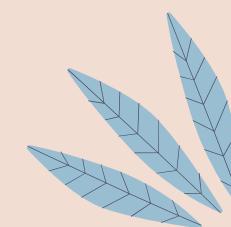


# Awesome words





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



**—Someone famous**

**A picture is worth  
a thousand words**





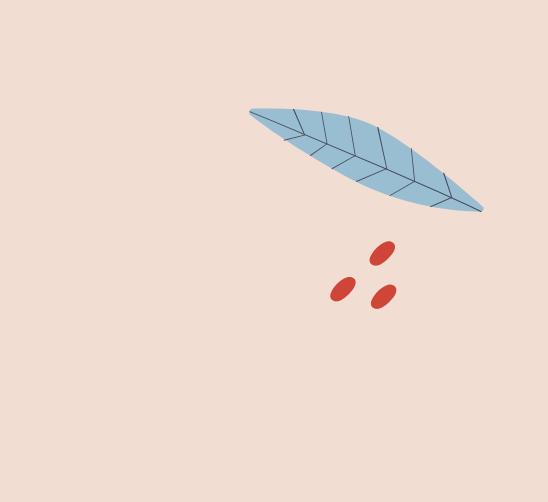
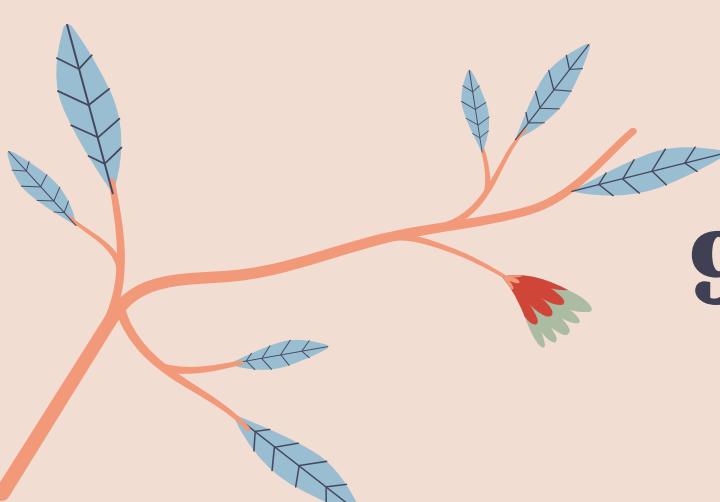
# A picture always reinforces the concept

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

# 150,000

Big numbers catch your audience's attention





**9h 55m 23s**

is Jupiter's rotation period

**333,000.000**

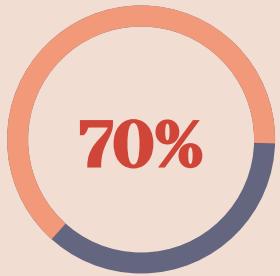
earth is the Sun's mass

**386,000 km**

is the distance from Earth to the Moon



# Nest recovery plan



## Mercury

Mercury is the closest planet to the Sun



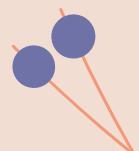
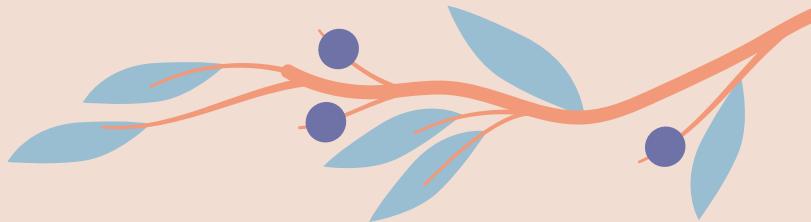
## Venus

Venus is the second planet from the Sun



## Mars

Mars is actually a very cold place





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# Smartphone

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# Tablet app

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# Our team



**Jenna doe**

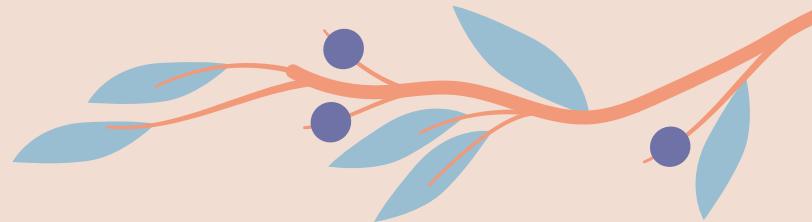
you can talk a bit about  
this person here



**Timmy Jimmy**

You can talk a bit about  
this person here

# Birds distribution



## Saturn

It's a gas giant and has rings

## Venus

Venus has a beautiful name

## Mercury

Mercury is a small planet

## Jupiter

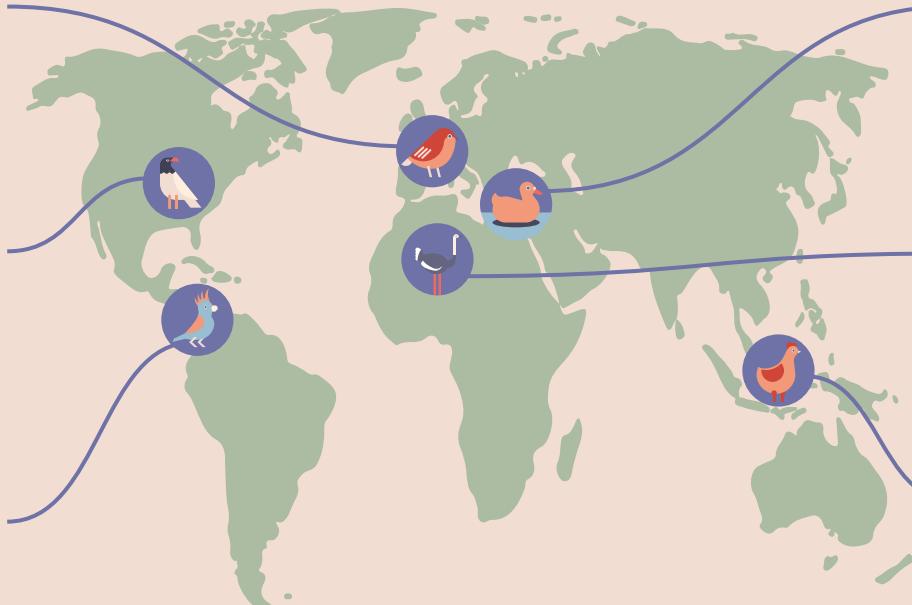
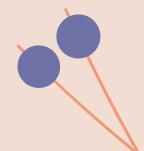
Jupiter is a really big planet

## Neptune

Neptune is far away from Earth

## Mars

Mars is actually a very cold place



# Timeline

## Saturn

It's composed of hydrogen and helium

01

02

03

04

05

## Mercury

Mercury is the closest planet to the Sun



## Venus

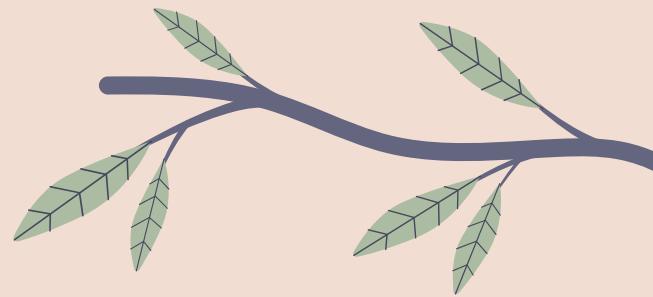
Venus is the second planet from the Sun

## Jupiter

Jupiter is the biggest planet of them all

## Mars

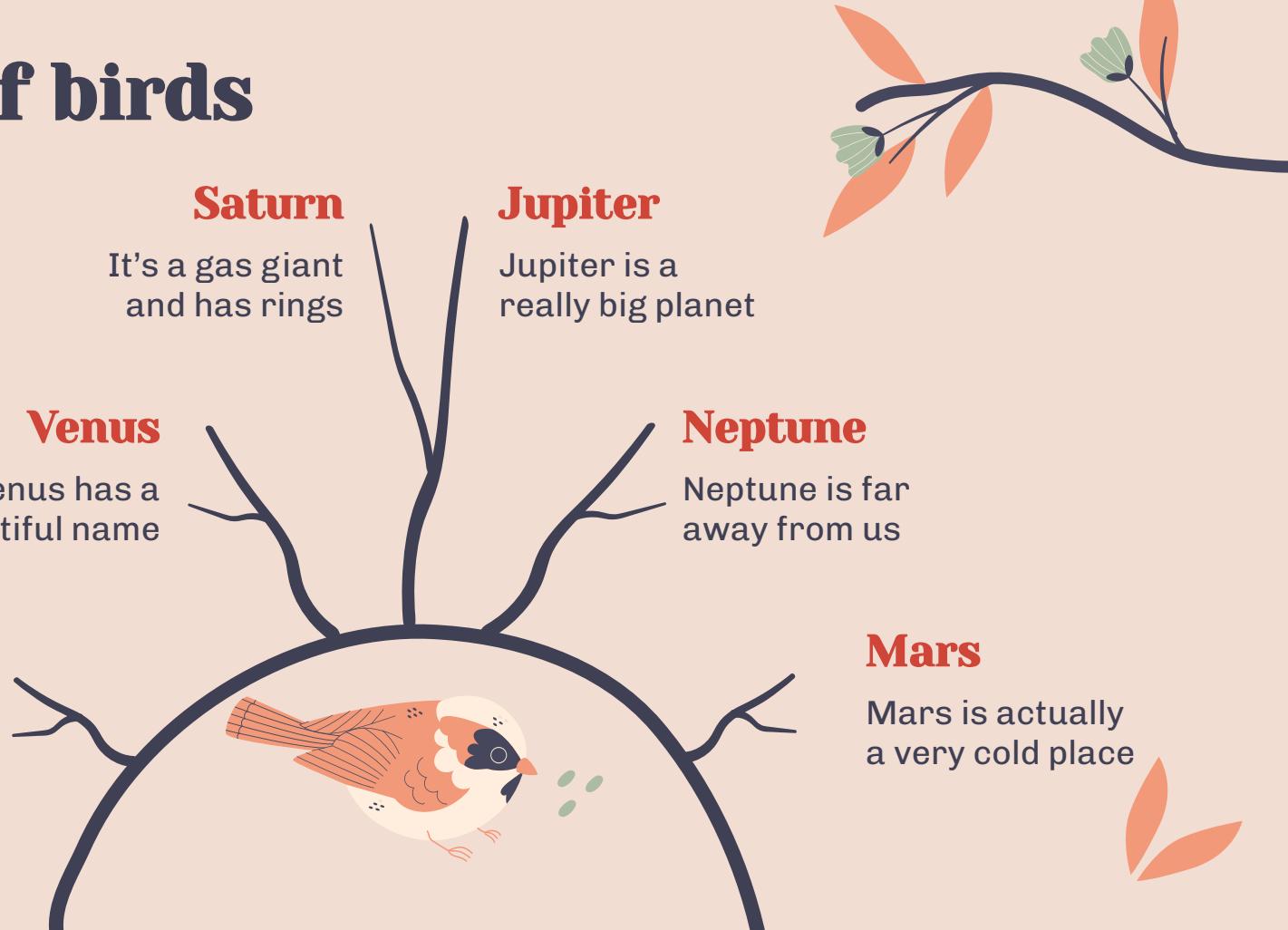
Mars is actually a very cold place



# Types of birds

## Mercury

Mercury is a small planet



## Venus

Venus has a beautiful name

## Saturn

It's a gas giant and has rings

## Jupiter

Jupiter is a really big planet

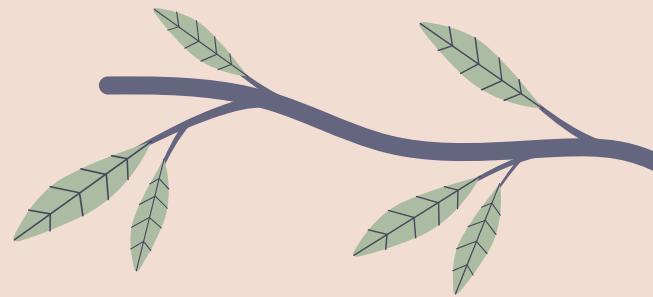
## Neptune

Neptune is far away from us

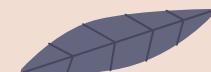
## Mars

Mars is actually a very cold place

# Bird species



Species names	Description	Families	Size
Accipitriformes	Mercury is a really small planet	12,000	5-23 cm
Anseriform	Jupiter is a really big planet	4,000	17-45 cm
Apodiformes	Neptune is far away from us	179,000	28-150 cm



# Endangered species



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



## Neptune

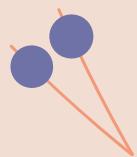
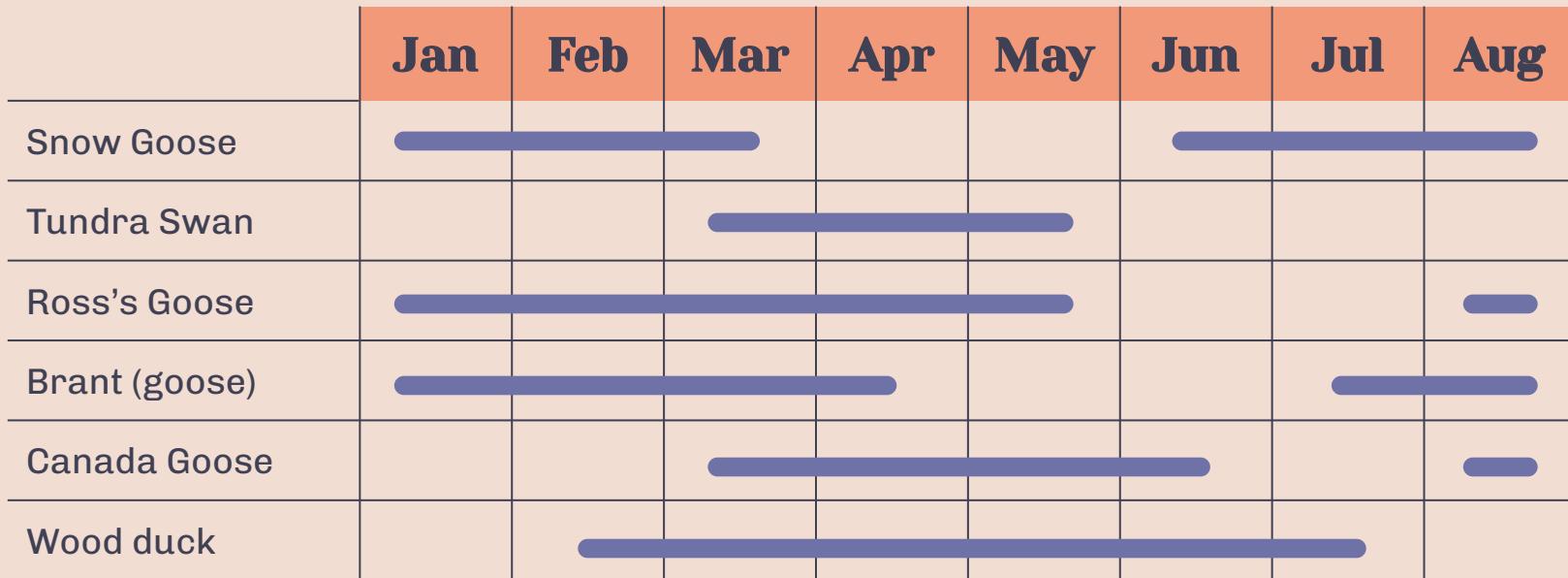
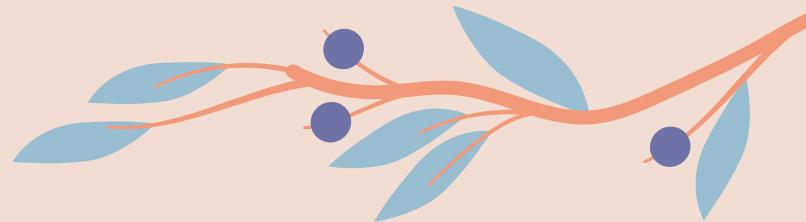
Neptune is far away from Earth



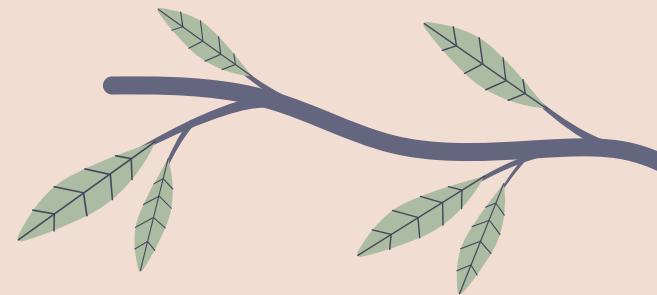
## Mars

Mars is actually a very cold place

# Sighting calendar



# Month schedule



## Saturn

It's composed of hydrogen and helium

**Week 1**

**Week 2**

## Venus

Venus is the second planet from the Sun

**Week 3**

**Week 4**

## Mercury

Mercury is the closest planet to the Sun

## Mars

Mars is actually a very cold place



# Sighting checklist

Bird	Sighted	Where
	✓	Arizona

Bird	Sighted	Where
	✓	Nevada

Bird	Sighted	Where
	✓	Spain

Bird	Sighted	Where
	✗	France



# Classification

**Saturn**

It a gas giant  
and has rings

**Jupiter**

Jupiter is a  
really big planet

**Venus**

Venus has a  
beautiful name

**Neptune**

Neptune is far  
away from Earth



# Birds by sizes



**Saturn**

Saturn is a gas giant with rings



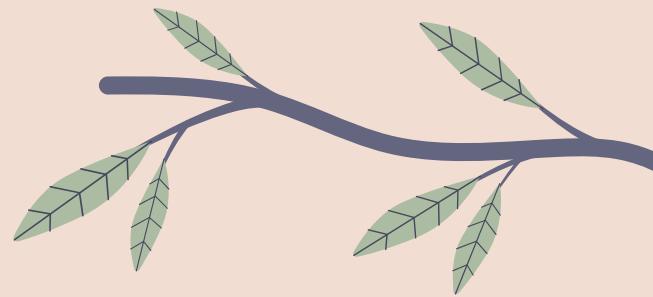
**Neptune**

Neptune is far away from Earth

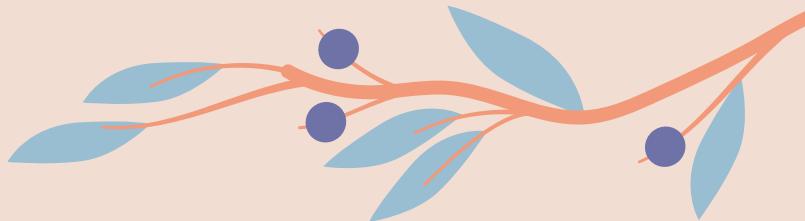


**Jupiter**

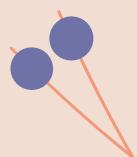
Jupiter is a really big planet



# More about birds



Name	Length	Wingspan	Weight	Height
Crane	96-120 cm	180-222 cm	6 kg	1-1.3 m
Heron	84-102 cm	145-170 cm	12.5 kg	1 m
Flemish	125-145 cm	155-174 cm	3 kg	1.1-1.5 m
Owl	57-75 cm	140-188 cm	2 kg	0.6-0.7 m
Vulture	100-105 cm	275-290 cm	12 kg	1 m
Bustard	75-105 cm	190-260 cm	18 kg	1 m



# Bird sighters testimonials



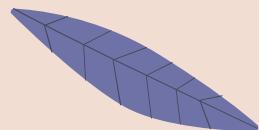
“Mercury is the closest planet to the Sun and the smallest one in the Solar System”

**—Sophia Mckane**



“Venus has a beautiful name and is the second planet from the Sun. It's terribly hot”

**—Richard Roe**



# Sponsor a bird



**\$ 25,99**



**Saturn**

- ✓ Poster
- ✓ Life proofs



**\$ 44,99**



**Venus**

- ✓ Poster
- ✓ Life proofs



**\$ 62,99**



**Mercury**

- ✓ Poster
- ✓ Life proofs





# Thanks!

**Do you have any questions?**

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# Birds icon pack



# Alternative resources





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## Vectors

- Hand drawn bird collection
- Hand drawn bird collection I
- Hand drawn bird collection II
- Hand drawn bird collection III

## Photos

- Pigeon
- Bird
- Front view couple bird watching

## Icons

- Birds icon pack



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Pana



Amico



Bro



Rafiki



Cuate

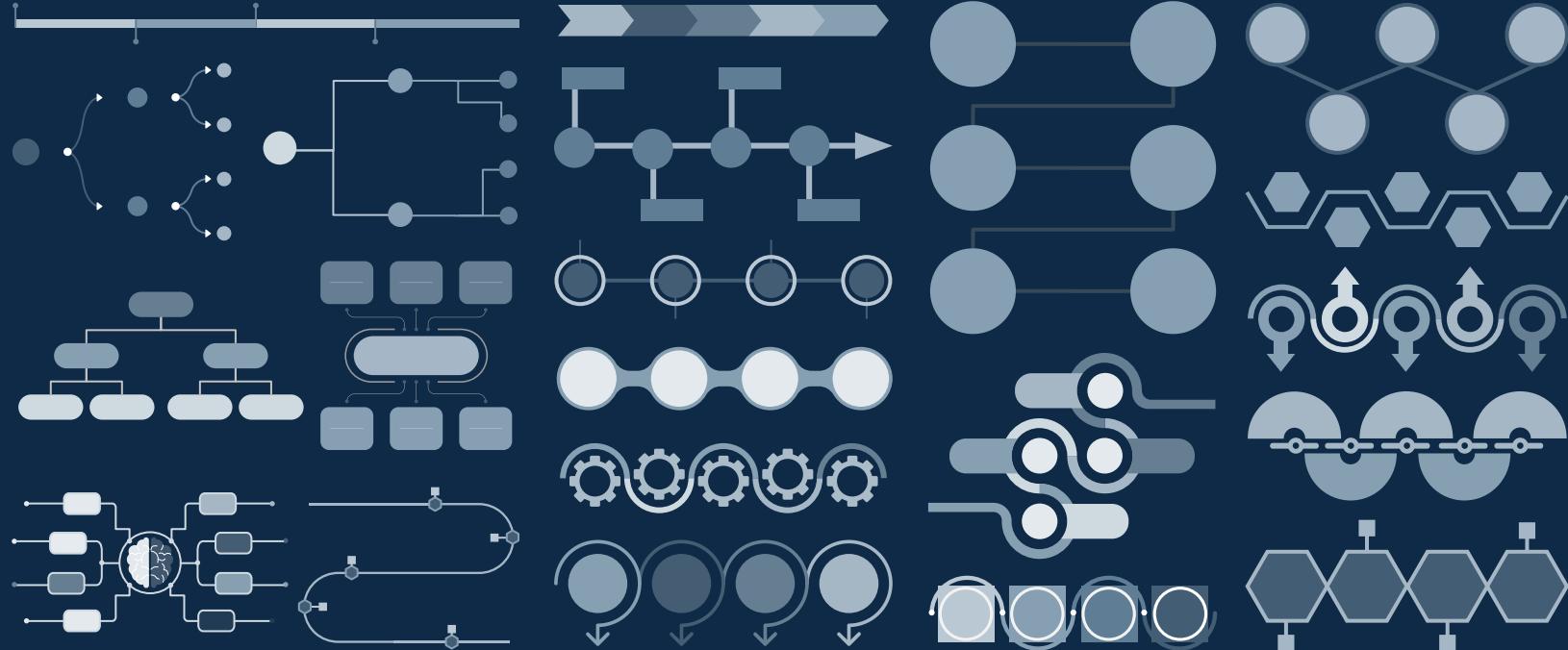
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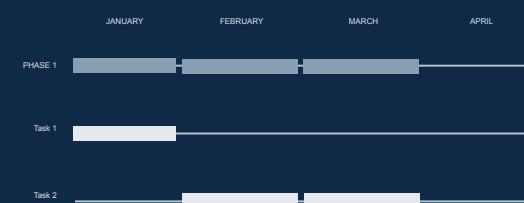
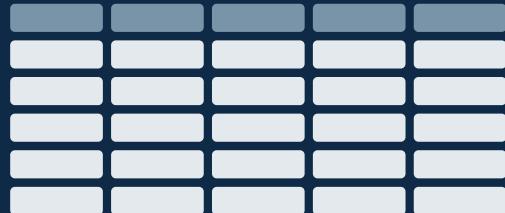
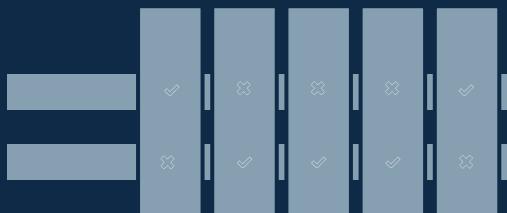
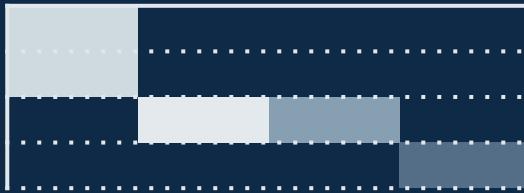
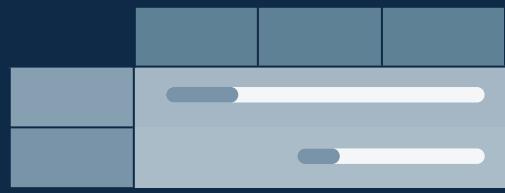
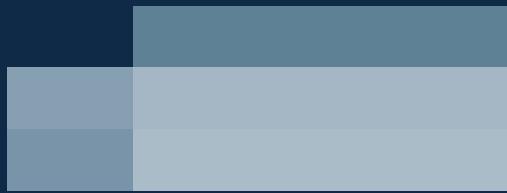
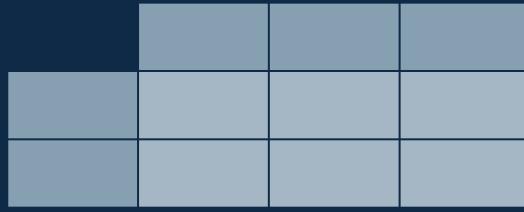
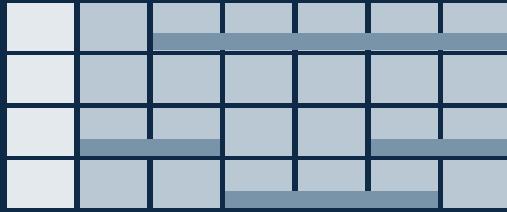
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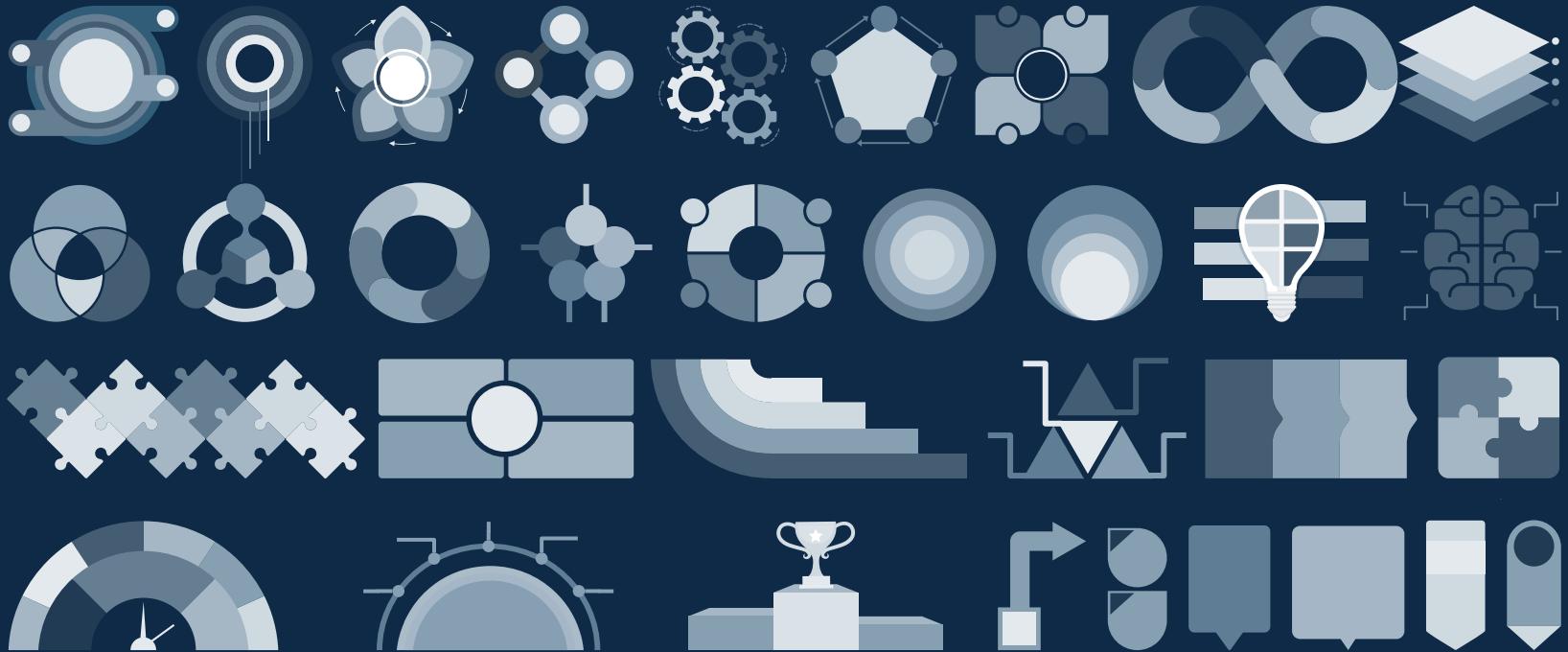
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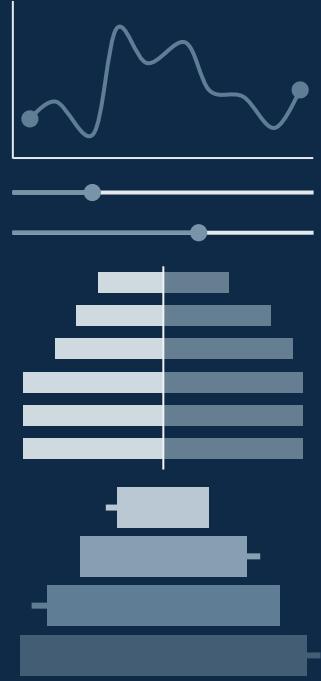
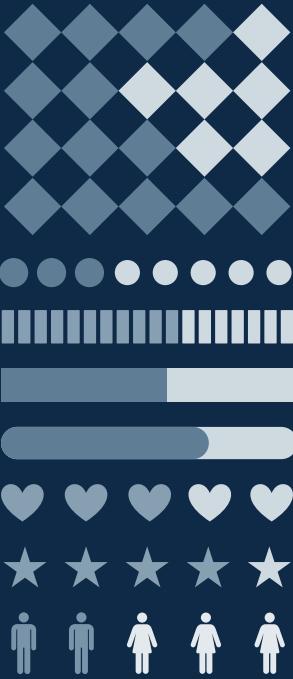
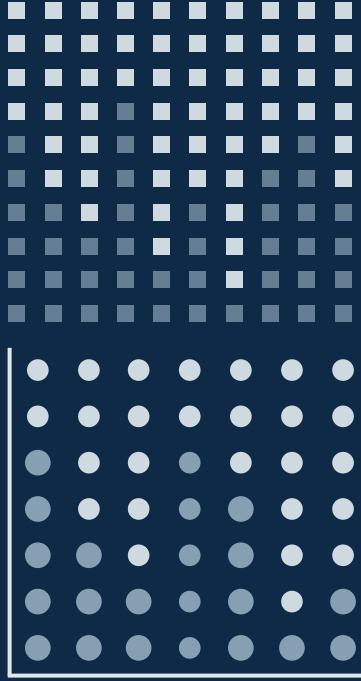












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