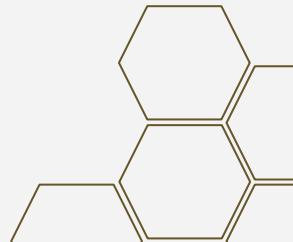
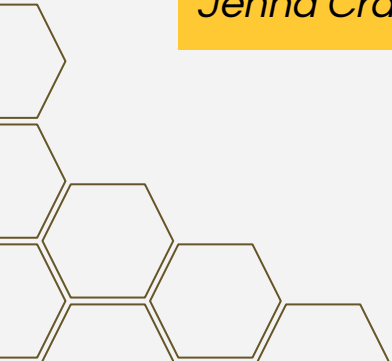


Project Caving

A.S.S.

Jenna Crabtree, Jakob Denton 3/7/24



Announcements!



*Past ASS- D&P
And DIG!*

3/1-3 **3/14);**

**No Meeting
Next Week!**

**ASS Social
Friday 7PM!**

3/8 **3/11-15**

**Spring Break! Make sure
to stay for the Social!**

**ASS does TAG!
Again!**

3/9-15 **3/21**

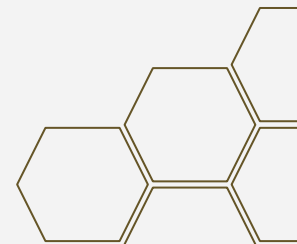
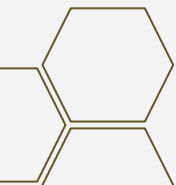
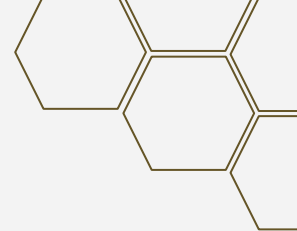
**Next meeting back:
CAVE BIOLOGY**



Announcements!

Cascade Caverns Project

4/19-21



ASSxMoonrocks - 03/23/24



America and ASS are
number 1





0.0



Project Caving- Cave Digs

Jakob Denton

What is a Cave Dig?

Removing debris (trash, trees, fencing), sediment, and rocks from a karst entrance to enlarge the opening to the cave system

- Requires safe collaboration between individuals
- Requires specialized tools
- Allows easier access for cave critters





Where do Cave Digs Happen?

Cave Digs can happen anywhere there is a cave!

- Private landowners
 - Interested in finding out more about what is on their land
 - Cleaning out trash dumped from previous landowners
 - accidental!
- Government Land
 - Cleaning out trash dumped by unknown persons
 - Cleaning out trash dumped by convicted persons
 - Discovering more about the land



Why do we dig caves open?

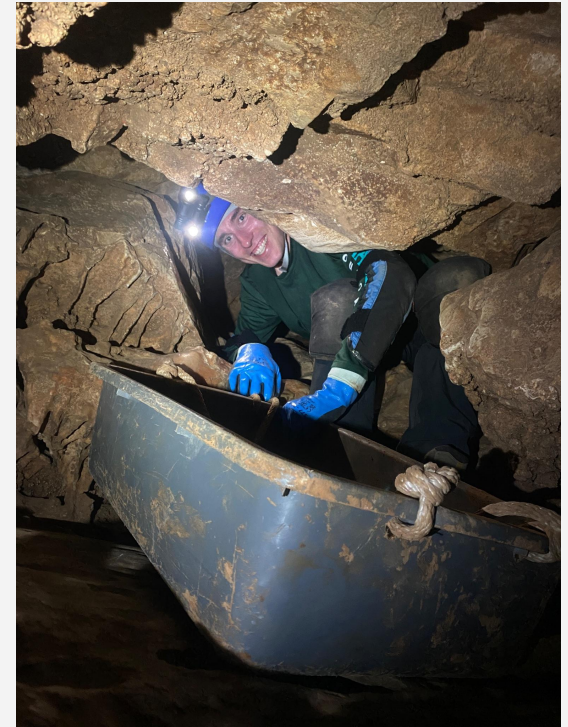
Caves are home to many unique creatures, which we will learn about more next week! Opening up closed systems allows the energy cycle to return to the cave thus eventually allowing life to persist farther and farther.

- Caves can be plugged over time, digging can restore the original habitat.
- Caves can restore hydrology flow and help prevent flooding and assist with aquifer recharge
- Restore energy flow to a cave system. Allows creatures to migrate in and out, providing energy to creatures who never leave in various forms.
 - dung



Why do we dig within caves?

- ◆ Open up plugged passages
- ◆ Enlarge the natural passage to make it human passable
- ◆ Find routes around dangerous obstacles
 - Sumps
 - Large waterfalls
 - Exposed edges
 - Uncomfortably long crawls



Why Dig???



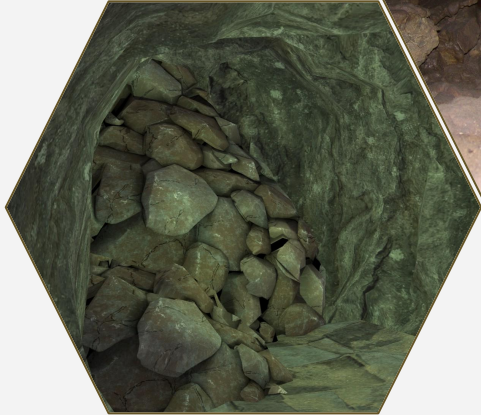
Cave before dig:



Cave after dig:



Dig. make. cave. longer.



Obstacles



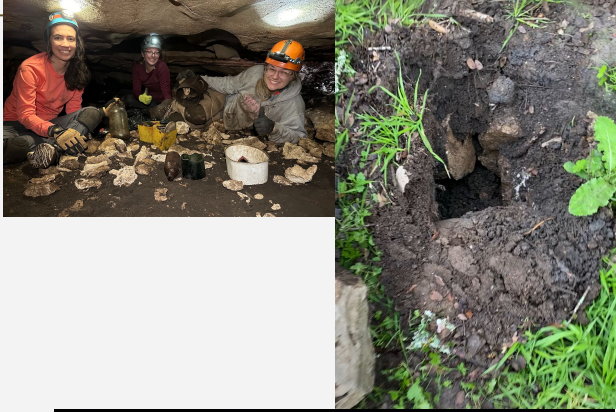


Tools

Cave Digs we Know About!

- ◆ Lechuguilla
 - https://www.nps.gov/cave/learn/nature/lechuguilla_cave.htm
- ◆ Whirlpool
- ◆ Hot Pocket Cave
- ◆ Sol Mayer Cave
- ◆ C. Castle Cave
- ◆ M.H. Cave
 - update?

M. H. Dig



A Few of Jakob's Favorite Digs!



Wendigo Cave Dig



Undisclosed Cave in Austin

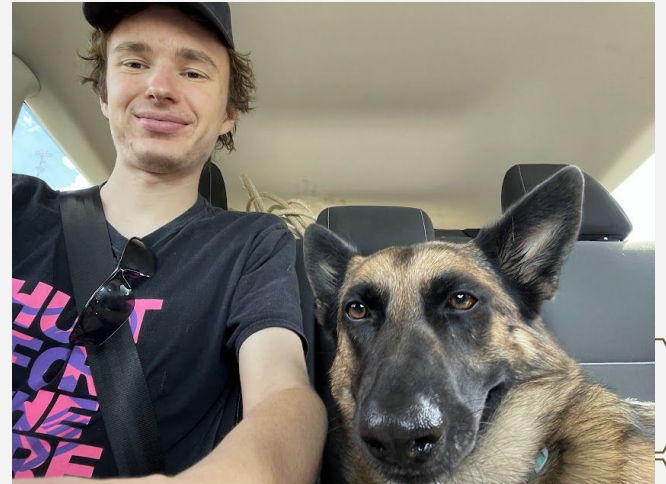


Trash Pit Dig Kyle U_U





Digs are fun!!!







0.0

Project Caving- Cave Survey

Jenna Crabtree

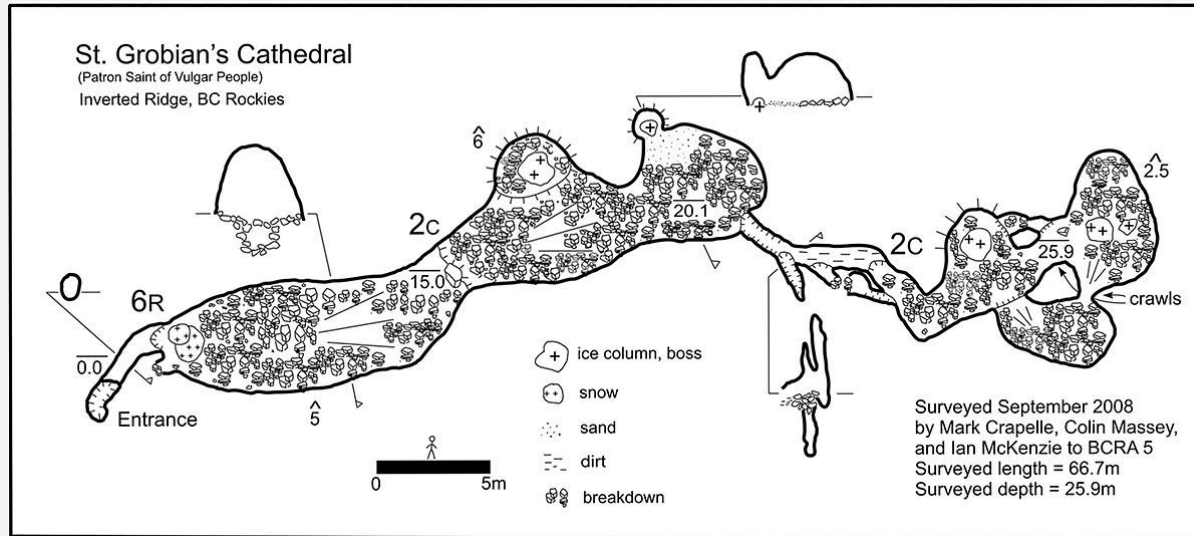
What is cave survey?

- ◆ Making a to scale map from accurate in cave measurements
- ◆ Gives the cartographer what they need to produce final maps



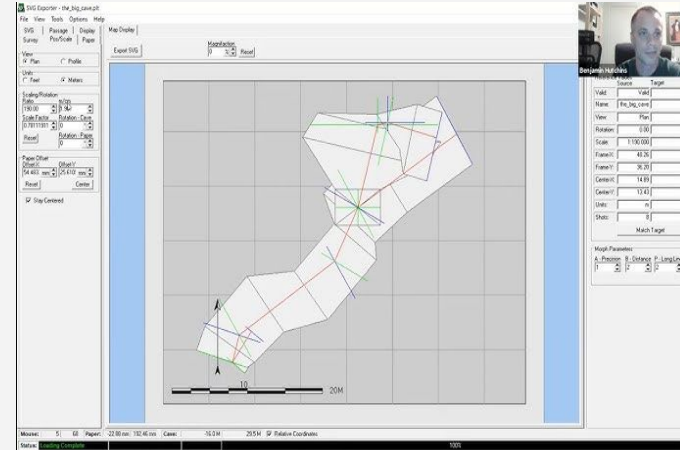
Why do we survey caves?

- Maps are really good at giving directions
 - Keeps us from getting lost as easy
- Aids in rescues
- Provide insight into geologic trends or hydrology
- Important for landowners to know if the entirety of the cave is on their property or not

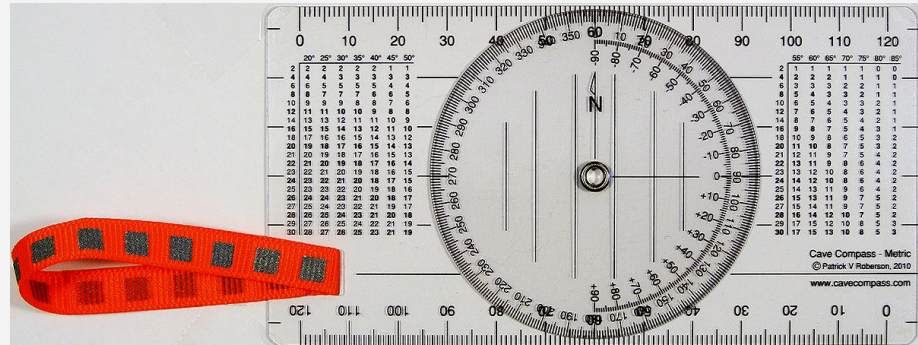


How do we survey caves?

- Specialized equipment
 - Suunto
 - DistoX
 - Brick
 - Cave Compass
 - Survey Paper
 - Rulers
 - Laser Distance Finders
 - Measuring tape
 - Flagging



- Patience
- Proper Data Management of Sketches
- Cartography
 - Compass
 - Walls
 - Adobellustrator



People Involved in Sketching

- ◆ Point Person
 - Takes backsights
 - Finds the route the team will take
 - Places stations
- ◆ Foresights
 - Takes foresights from previous station to new station
 - Repeats measurements to sketcher
- ◆ Inventory
 - Takes notice of things of importance in the caves
 - Historical trash
 - Creatures
 - Speleothems
 - Geology
 - Cave conditions: area really slippery, evidence of flooding
- ◆ Sketching
 - Makes the to scale sketch of the map based on real time measurements
 - Makes notes of cave topography, speleothems, and stations
 - Runs the pace of the team, decides breaks, and leave time
 - Accurately places landmarks in the sketch
 - Uses paper or topodroid



People Involved in Mapmaking

◆ Sketcher

- Provides the base of the map
- Should write notes based on the cave to clear up any confusions
- Might be asked questions later
- Should aim to provide the cleanest sketch possible

◆ Cartographer

- Uses computer programs to render sketch a map
- Inputs raw data into compass or walls to produce a line plot
- Inputs line plot into adobe illustrator and super imposes sketch over it
 - Fills in permanent lines, speleothems, bodies of water, cross sections, and important notes
- Finished Map
 - North Orientation
 - Legend
 - Cartographic interpretation of the cave
 - People involved
 - Date
 - Name of cartographer
 - Name of cave, county, id number if applicable



bitch

Girl boss pussy slay

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

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THREE IDEAS



JUPITER

Jupiter is a gas giant and the biggest planet in the Solar System. It's the fourth-brightest object in the night sky and it was named after the Roman god of the skies



VENUS

Venus has a beautiful name and is the second planet from the Sun. It's terribly hot and its atmosphere is poisonous. It's the second-brightest natural object in the night sky



SATURN

Saturn is a gas giant and has several rings. It's composed mostly of hydrogen and helium. This planet was named after the Roman god of wealth and agriculture

FOUR IDEAS



MARS

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



VENUS

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



JUPITER

It's a gas giant and the biggest planet in the Solar System. It's the fourth-brightest object in the night sky and named after a Roman god



SATURN

Saturn is a gas giant and has several rings. It's composed mostly of hydrogen and helium. It's the sixth planet from the Sun

SIX IDEAS




MARS

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

EARTH

Earth is the third planet from the Sun and the only one that harbors life in the Solar System. We all live on this planet



VENUS

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

SATURN


Saturn is a gas giant and has rings. It's composed mostly of hydrogen and helium. It's the sixth planet from the Sun

NEPTUNE

Neptune is the farthest planet from the Sun. It's also the fourth-largest planet by diameter in the Solar System

JUPITER

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

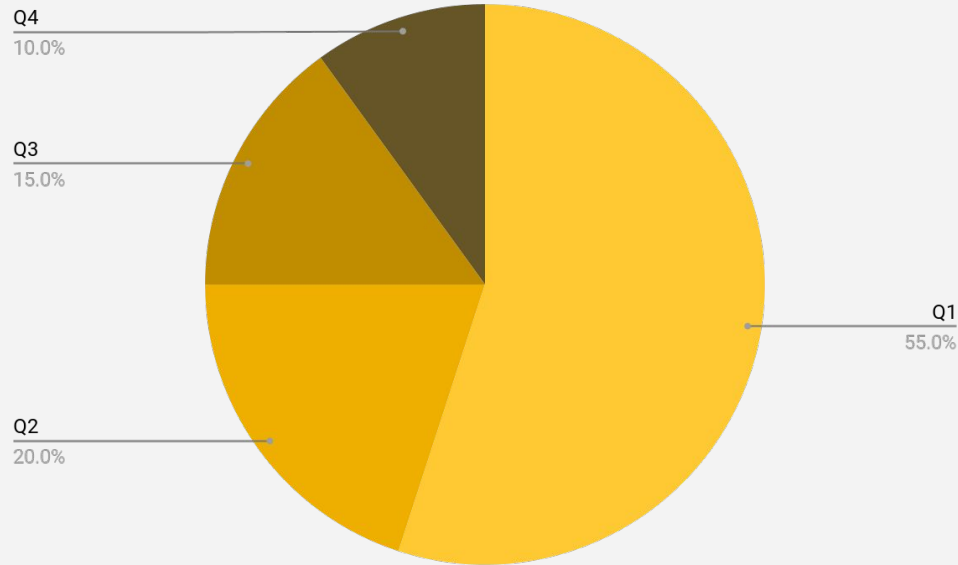




4,498,300,000

Big numbers catch your audience's attention

PIE CHART



Q1

Mars is very cold



Q2

Mercury is small



Q3

Venus is very hot

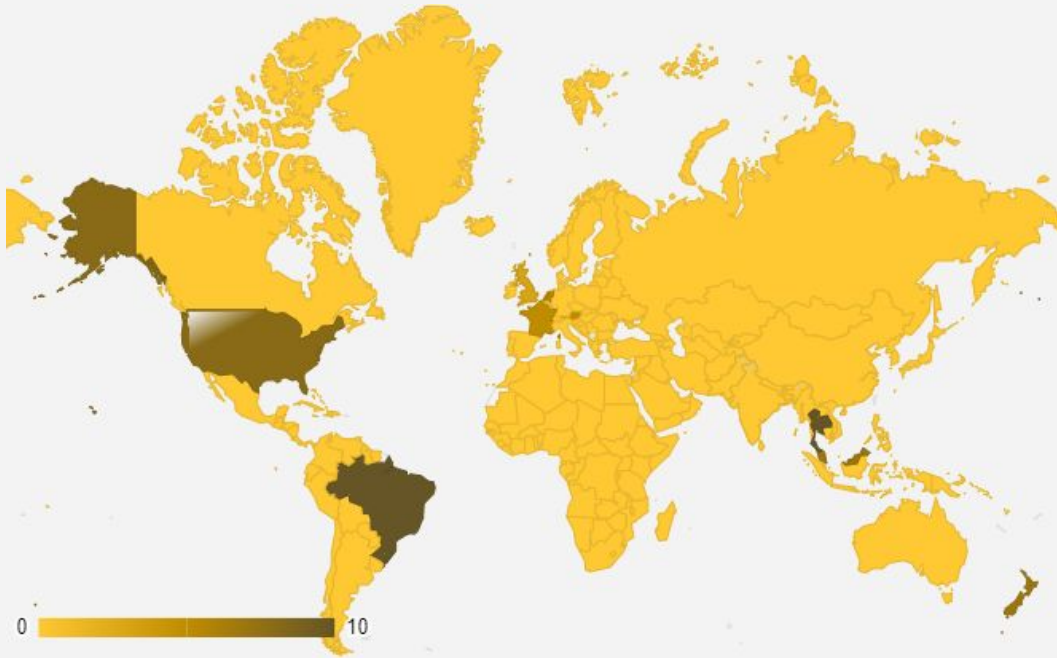


Q4

Earth has life

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

MAP



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



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



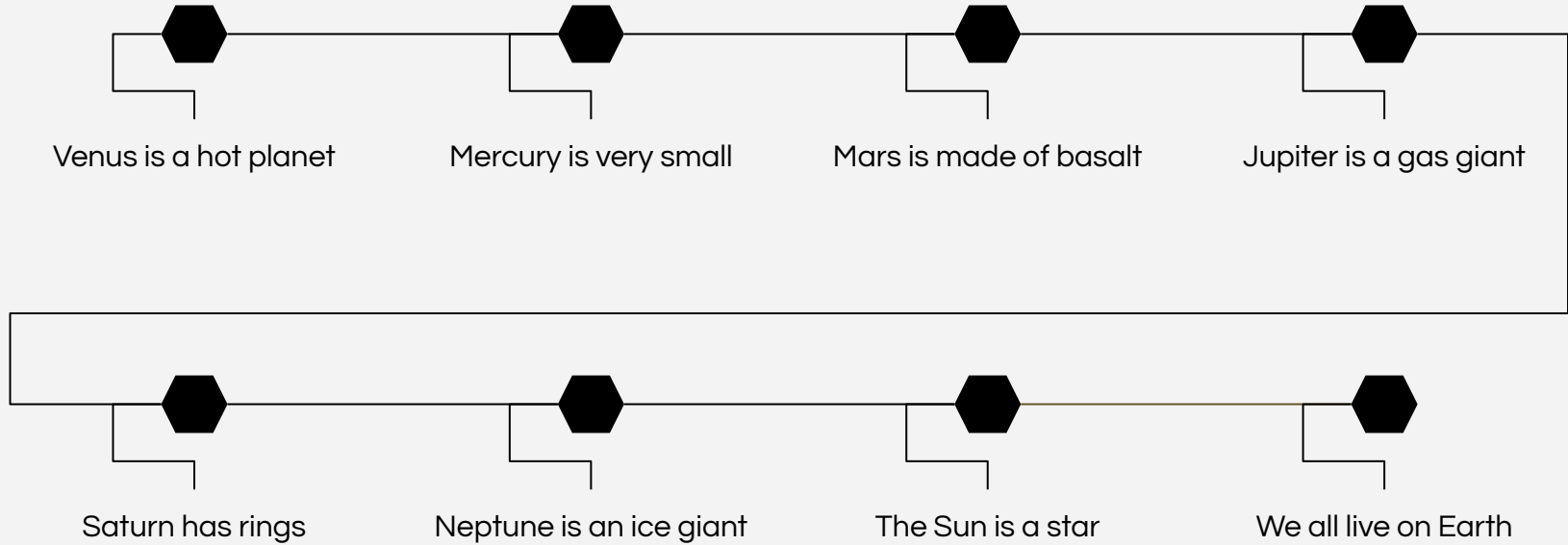
Mars is full of iron oxide dust, which gives the planet its reddish cast

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

TABLE

| | TEAM A | TEAM B | TEAM C | TEAM D | TEAM E | TEAM F |
|---------|--------|--------|--------|--------|--------|--------|
| MERCURY | XX | XX | XX | XX | XX | XX |
| MARS | XX | XX | XX | XX | XX | XX |
| SATURN | XX | XX | XX | XX | XX | XX |
| VENUS | XX | XX | XX | XX | XX | XX |
| JUPITER | XX | XX | XX | XX | XX | XX |
| EARTH | XX | XX | XX | XX | XX | XX |
| MOON | XX | XX | XX | XX | XX | XX |

TIMELINE



TARGET INFOGRAPHIC

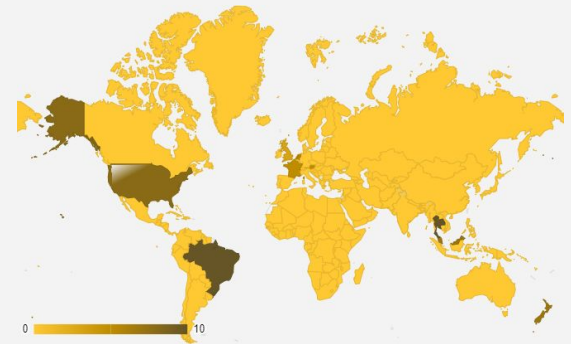
DEMOGRAPHIC

| | |
|-------------------------|---------------------------|
| AGE | 25-50 years old |
| GENDER | Male and female |
| OCCUPATION | Employees and students |
| FAMILY SITUATION | Single and married people |
| INCOME | \$50,000/year |

BEHAVIOR

- Mercury is the closest planet to the Sun and the smallest one
- Venus has a beautiful name and is the second planet from the Sun
- Despite being red, Mars is actually a cold place. It's full of iron oxide dust

GEOGRAPHIC

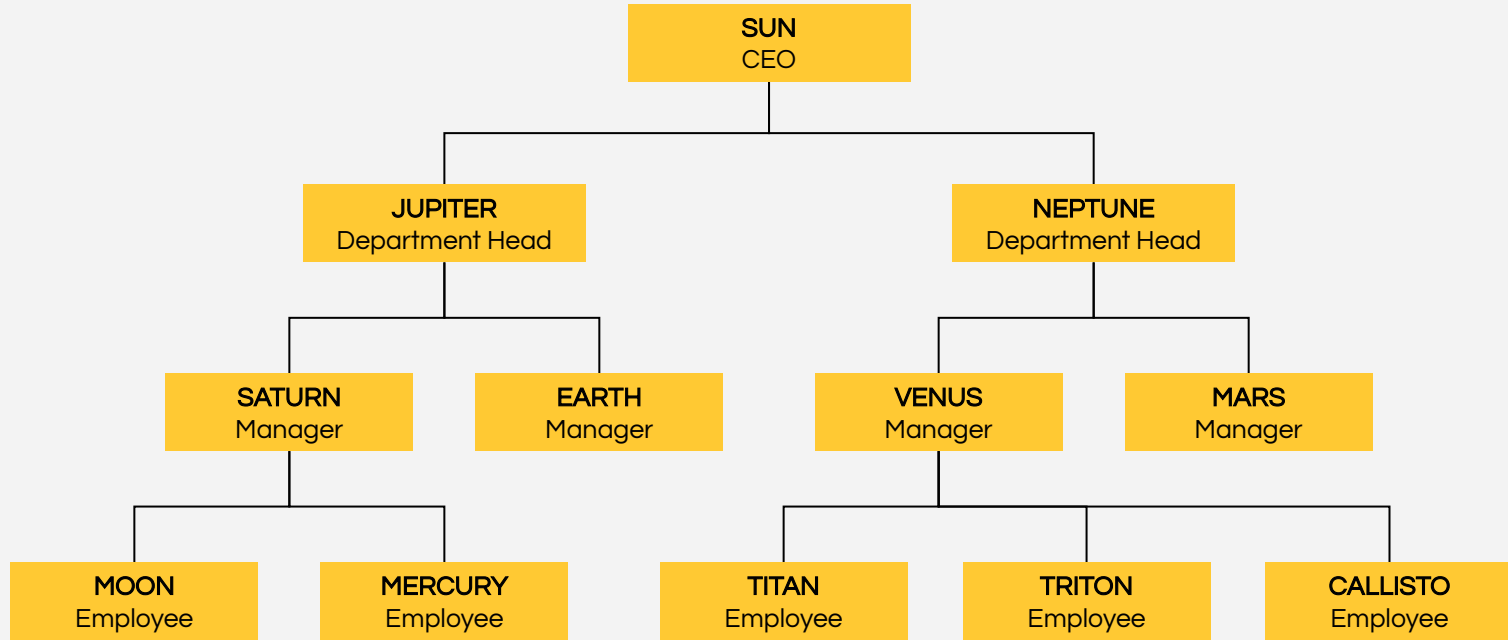


REGION Europe, Asia

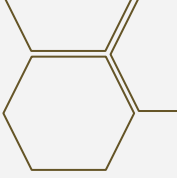
AREA Urban

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ORGANIZATIONAL CHART



ROADMAP INFOGRAPHIC



| INITIATIVE | OBJECTIVE | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|------------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Venus is very hot | Venus has a beautiful name and is the second planet from the Sun | ■ | ■ | | | | | | | | | | |
| Earth has life | Earth is the beautiful planet on which humans live | | ■ | ■ | ■ | | | | | | | | |
| Mars is very cold | Despite being red, Mars is actually a cold place | | | | ■ | ■ | ■ | ■ | | | | | |
| Jupiter is a gas giant | Jupiter is the biggest planet in the Solar System | | | | | | ■ | ■ | ■ | ■ | ■ | | |
| Saturn has rings | Saturn is a gas giant and has several rings | | | | | | | | | | ■ | ■ | |
| Mercury is small | Mercury is the closest planet to the Sun and the smallest one | | | | | | | | | | | ■ | ■ |





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VECTORS:

- ◆ [Colorful insect collection](#)



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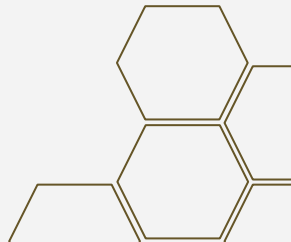
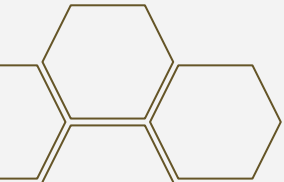
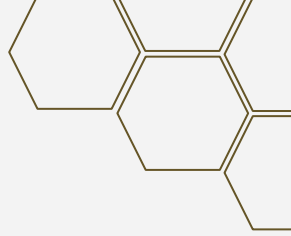
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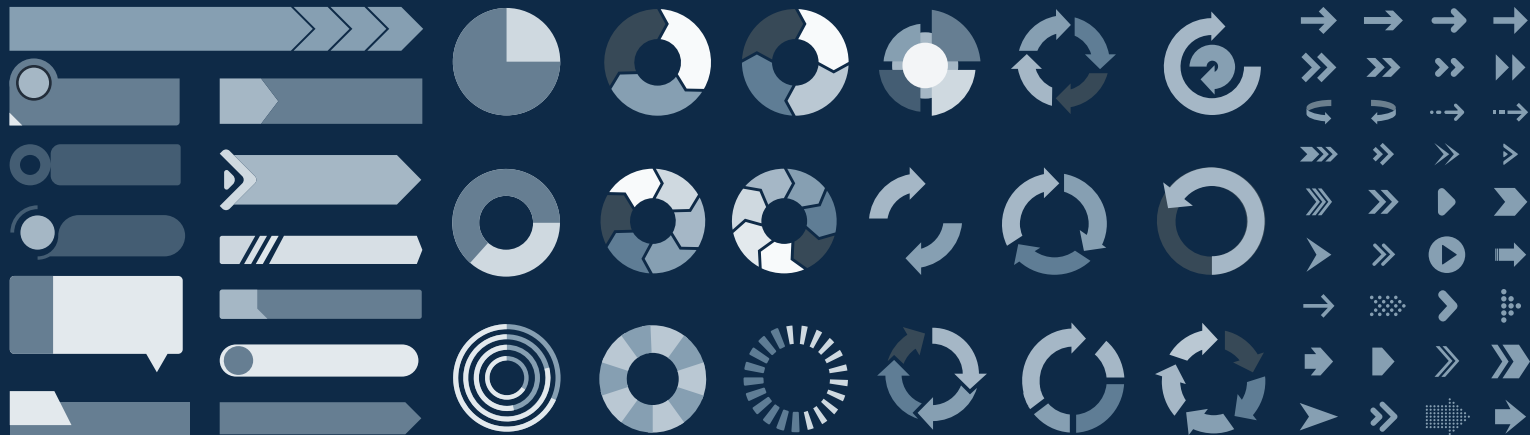
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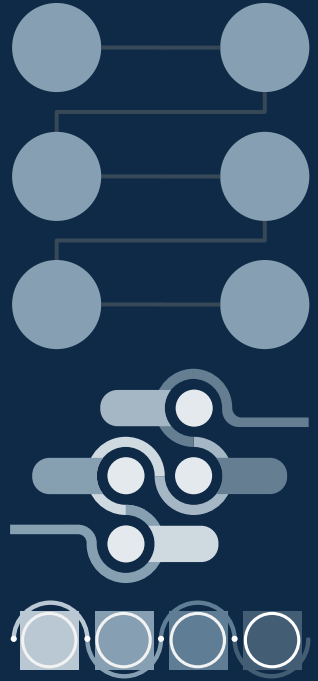
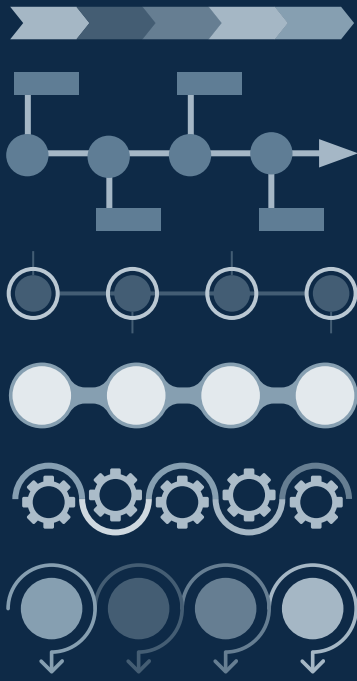
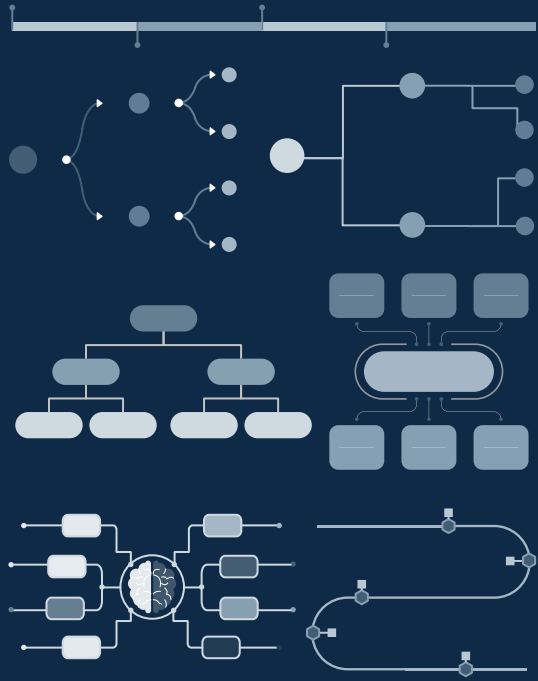
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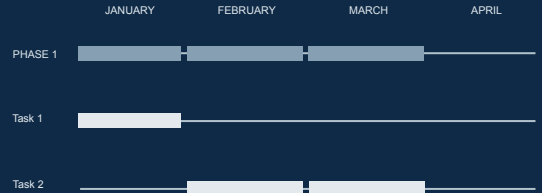
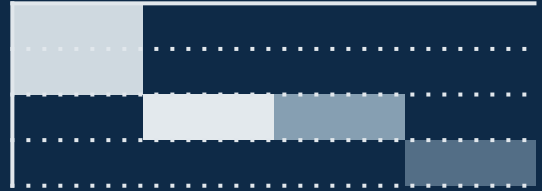
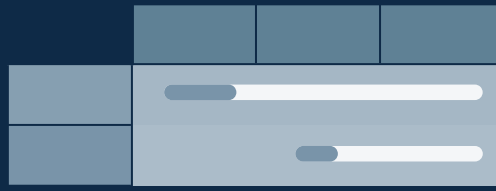
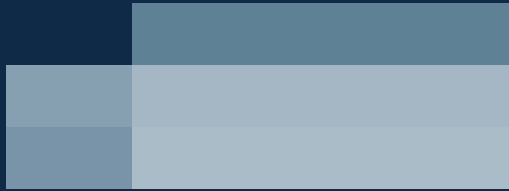
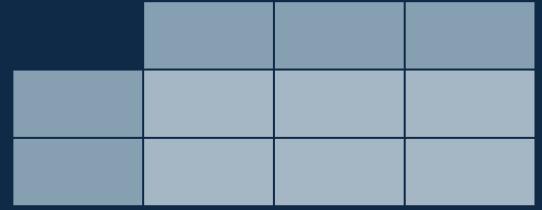
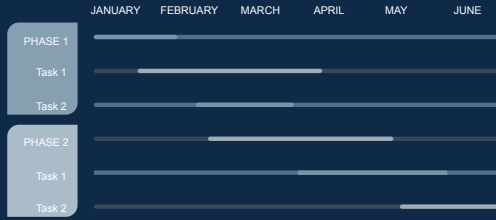
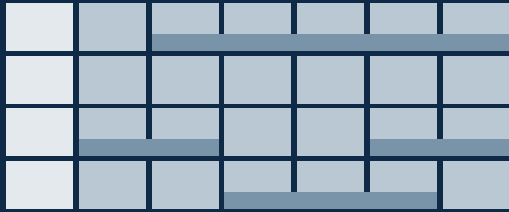
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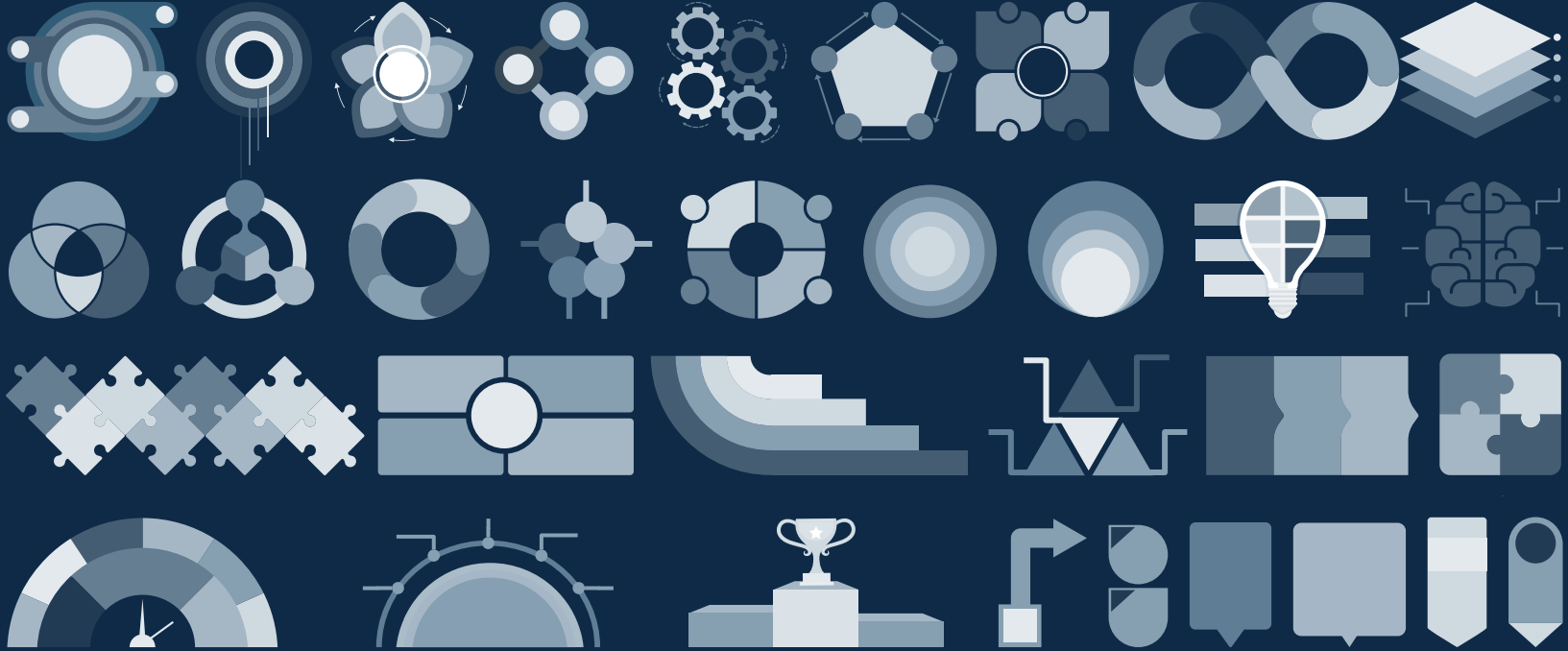
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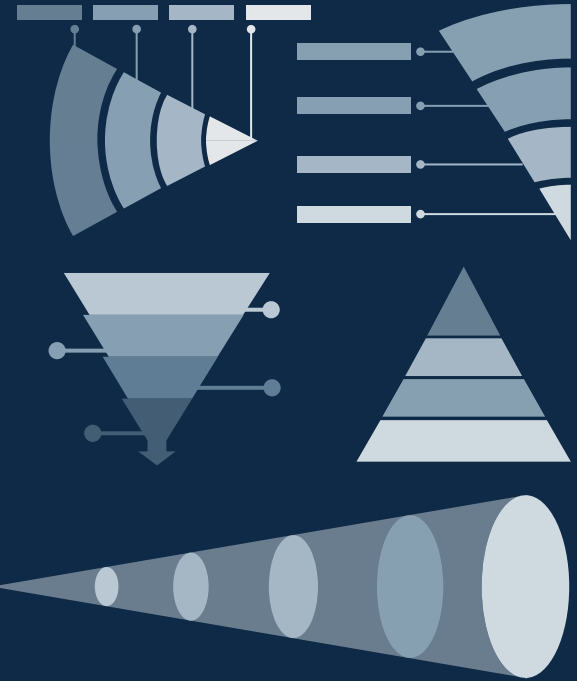
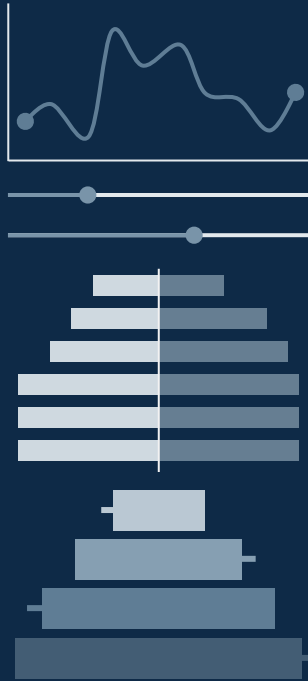
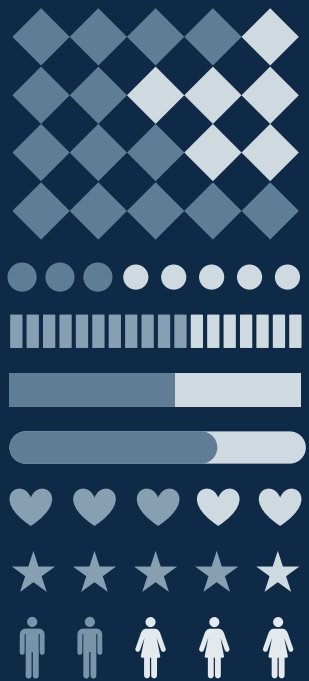
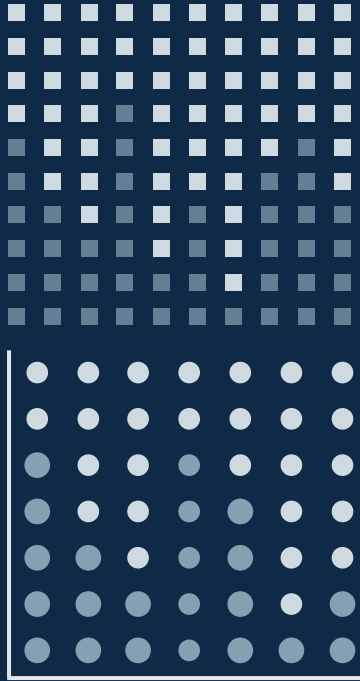












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