
Make it Easier for the Elderly to Use Smartphones and Appliances

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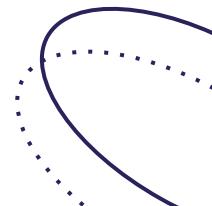
Low-fi
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Group Heuristic
Evaluation



01. Recap

Users Group: The elder that use technique

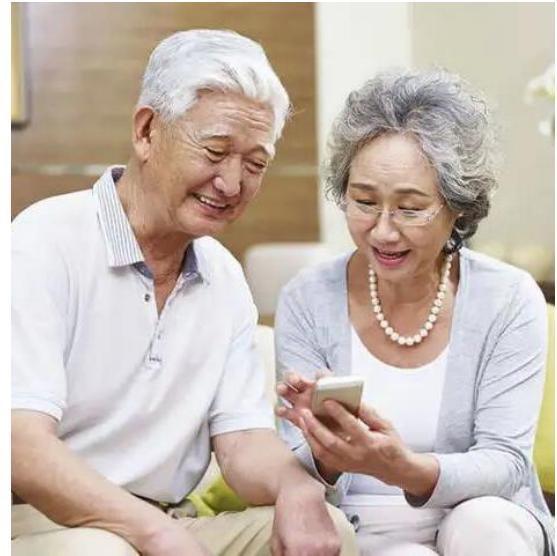
- Over 60 with diminished ability to learn
- Unfamiliar with smart device
- Lack of help, live alone

Problems: Current design cannot satisfy needs

- Complex interaction logic/menu
- Too many unnecessary functions
- Only adjusted design for the elderly

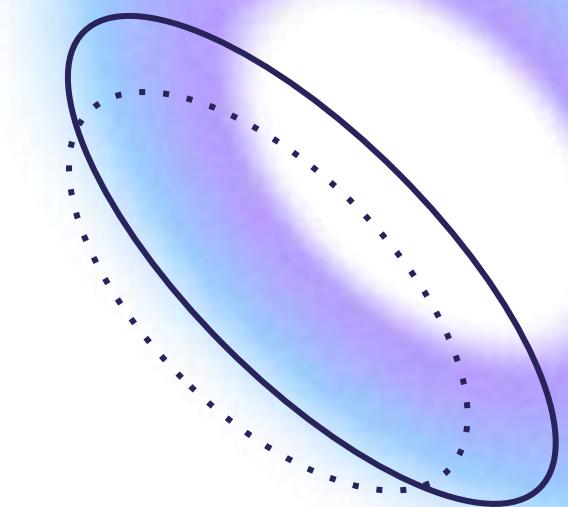
Solution: A "Dumb" Smart product

- less operation and shallow layer
- simple and direct
- integrate functions

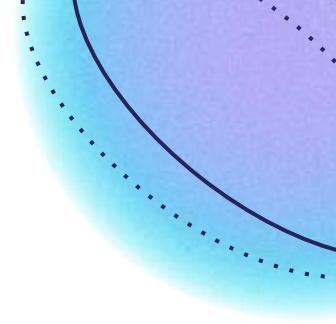


02.

Concept Video



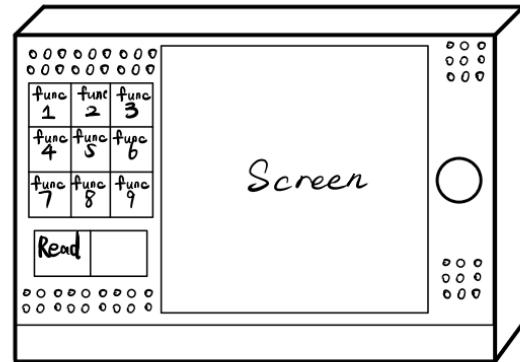
Elderly use technique



03.

Low-fi Prototype

Paper sketch including components, functions, work flow...





Product Design Goal

01. Decrease the number of steps

02. Provide adequate information in a simpler display

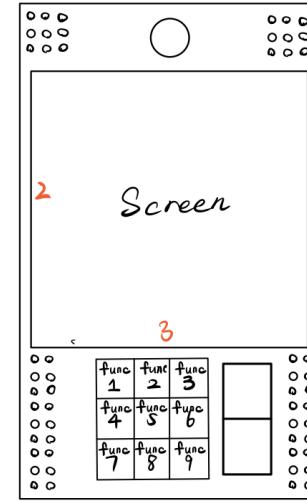
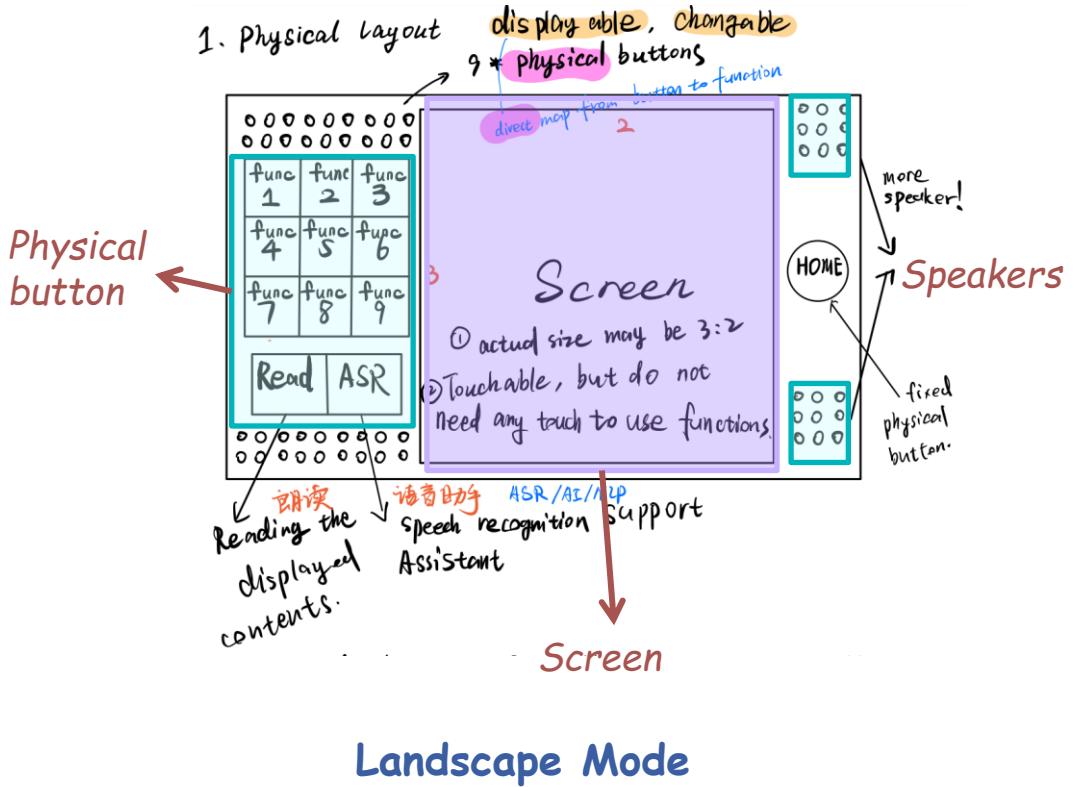
03. Offer guidance with less studying efforts

04. Personalized settings for different elderly people

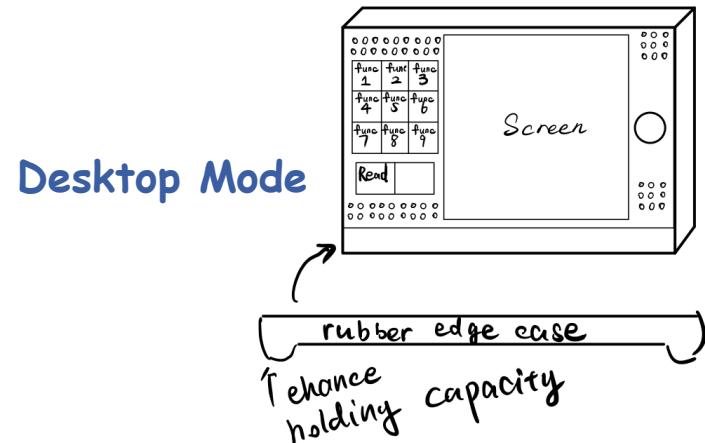
05. Help construct functional abstraction



Physical layout



Portrait Mode



Desktop Mode

Function and workflow

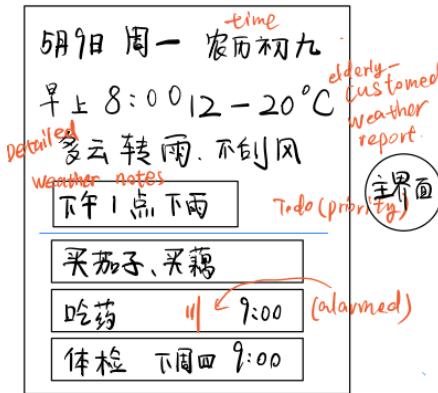
Functions: phone call, wechat, event reminder, household applicans control

Operation: press buttons, speak

2. Home.

主界面

电器 1	电话 2	微信 3
扫码 4	指导 5	亮码 6
提醒 7	... 8	... 9



优先显示
重要的显示不下的由这里获得

Home

4. 电话.

from: press 3 at 主界面

仍有状态栏，后退键

打电话 1	短信 2	通话 记录 3

朗读 A	语音 助手 B
---------	---------------

下午 4:00 5点吃饭
儿子 下午2点来电未接
话费/流量套餐报告

主界面

显示未读
通知

Phone-calls relative

Function and workflow

Functions: phone call, wechat, event reminder, household applicans control
Operation: press buttons, speak

3. household applications remote control
(智能家居)家电控制

from: press 1 at 主界面

洗衣机	电视	冰箱
1	2	3
灯	电视	...
4	5	...

朗读	语音助手
----	------

显示正在进行中的任务、提示。
只在所有界面上保持显示



下午 4:00 6点吃饭

洗衣机 脱水剩余3分钟

电视 点播 15分钟

冰箱门没关紧！



press "洗衣机"



from: press 1 at A

Display details about the device.

洗少量	洗多量	洗被子
轻柔洗	脱水	...
...

朗读	语音助手
----	------

下午 4:00 5点吃饭	+故障信息
洗少量，已洗净	...
脱水，剩余3分钟	...
建议烘干时间：40分钟	...
皮革老化，建议更换	...

故障信息
语音/故障

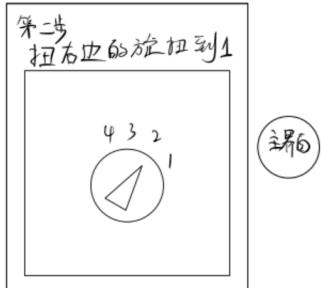
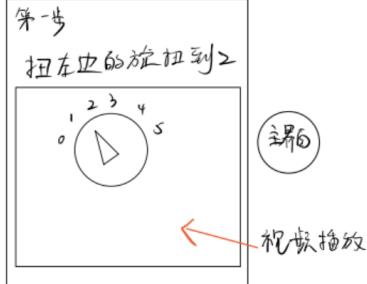
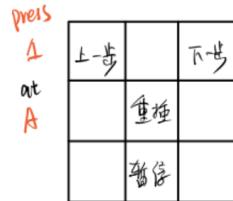


Household application control

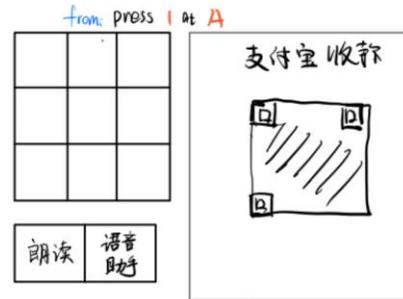
Function and workflow

Functions: phone call, wechat, event reminder, household applicans control

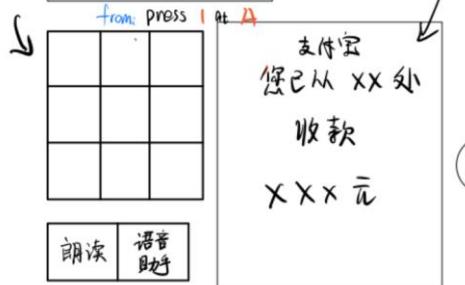
Operation: press buttons, speak



Guidence



tips for mid - I
model:
健康码,乘车码亦可作
展示

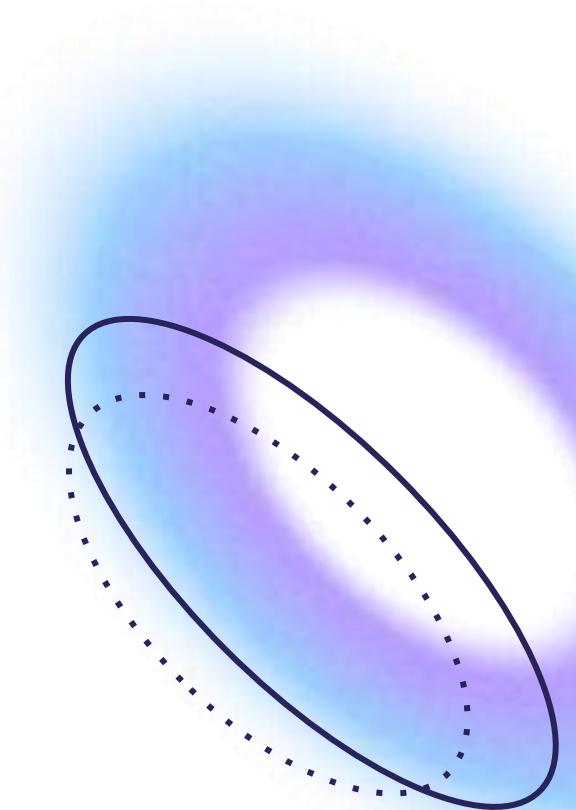


Payment

04.

Medium-fi Prototype

On-Screen Interactive Wireframe, detailed version of low-fi prototype

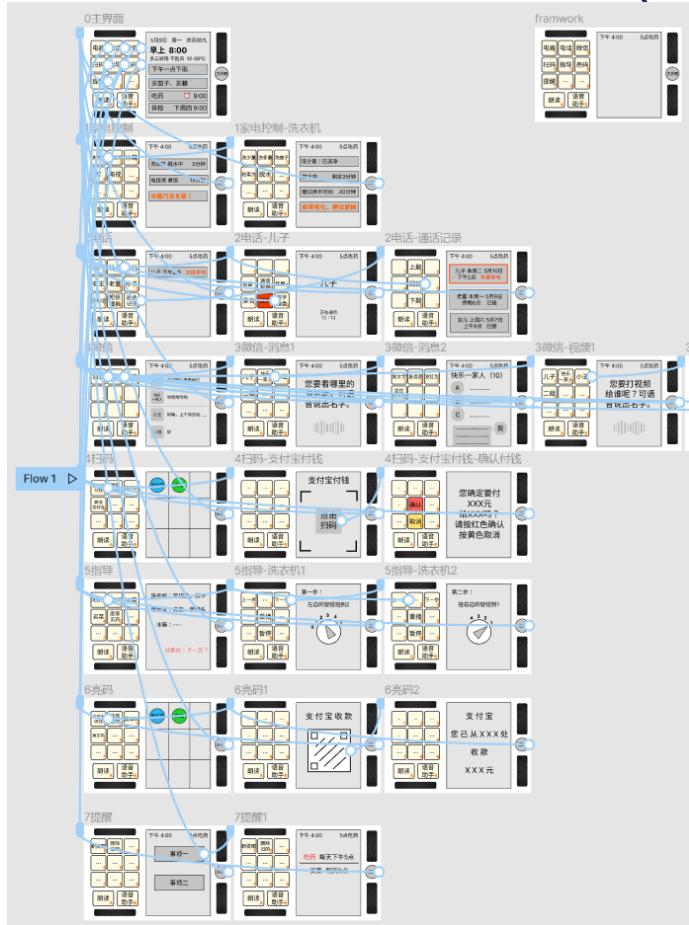


Mid-fi prototype design

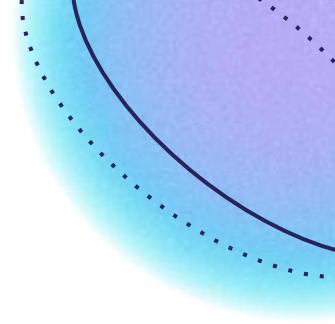
- Implement Tool: Figma
- Improvement Based-on: Low-fi prototype



Main menu

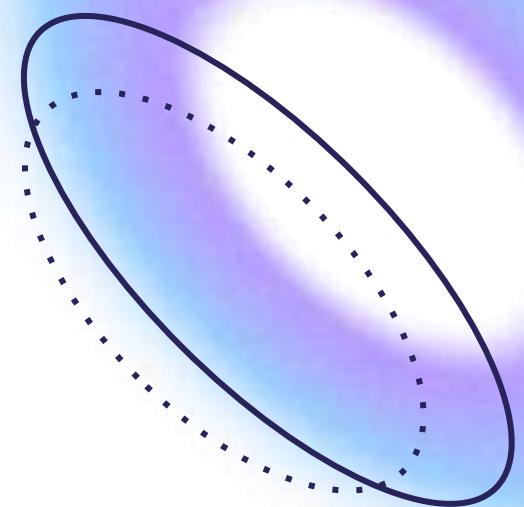


Link relationship



05. Group Heuristic Evaluation (Plan)

Define experiment task and metric for heuristic analysis
and usability test



Evaluation Design

Participants

1 compere
1 operator
1 recorder
2 observers
+ users

Scenario

Use mid-fi prototype
with/without instruction

Tasks

1. call Wang on wechat
2. pay with Alipay
3. check instructions for washing machine
4. use message reading

Metrics

Several aspects to evaluate the product

Analysis & Improvement

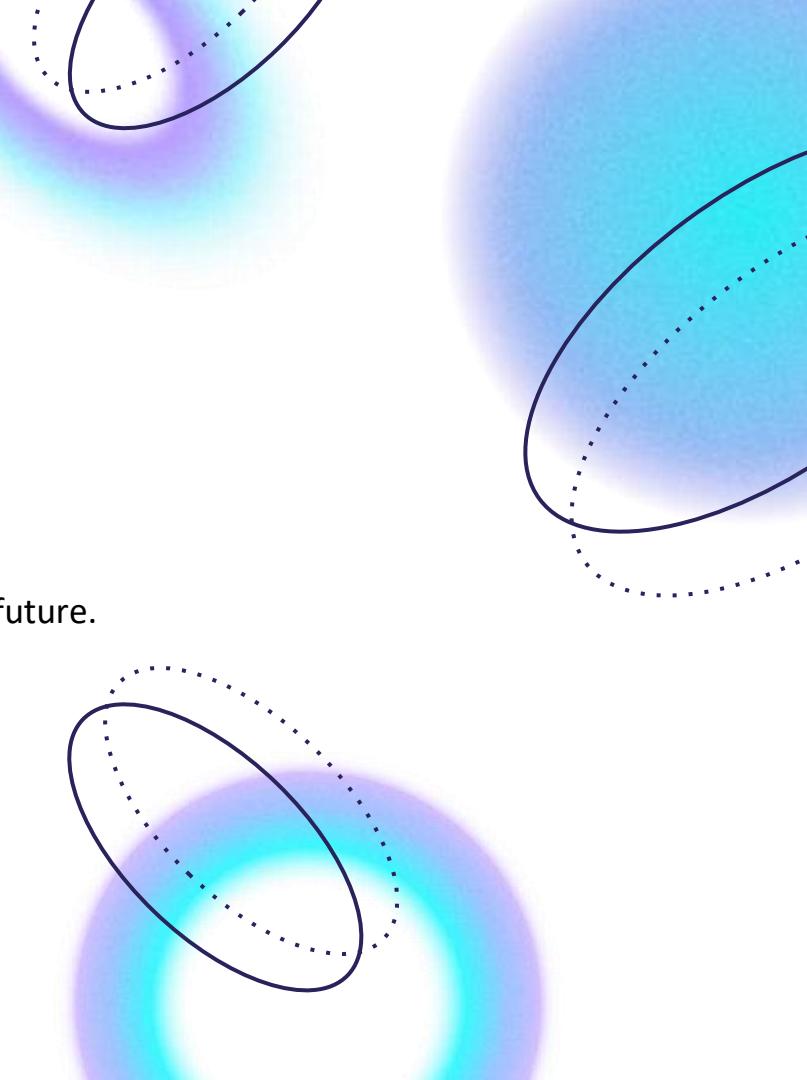
Analyse the result of experiment and iterate the products

Metrics

Performance	response time & total time consuming
Issue	Mistakes records, error intensity
Behavior	Verbal/Nonverbal actions, Eyetracking
Feedback (Think aloud)	record what users mentioned
UEQ (User Experience Questionnaire)	Likert scale in four dimensions: usability, learnability, reliability, satisfaction

Thanks

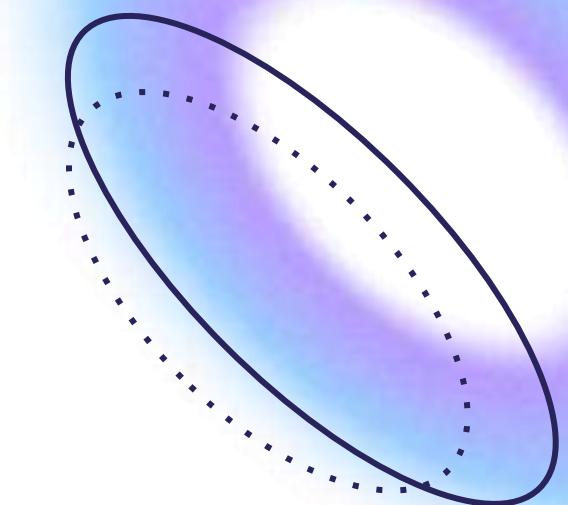
They are our grandparents, our parents and ourselves in the future.
Helping them is helping ourselves.



01.

Name of the section

You can enter a subtitle here if you need
it





Introduction

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

How will we divide the year?



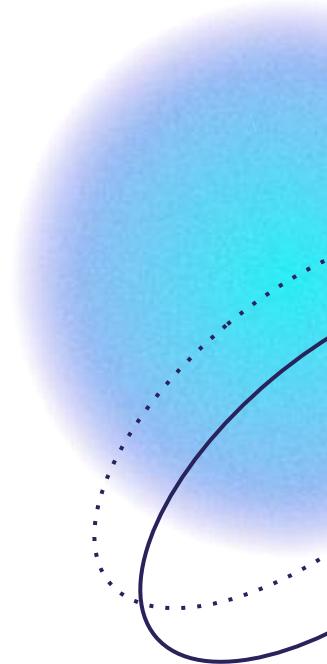
First semester

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



Second semester

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



Requirements for admission



Do you know what helps you make your point clear?

Lists like this one:

- They're simple
- You can 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

Work teams for the year ahead



Group 1

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



Group 2

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



Group 3

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

Admission criteria

Academic excellence

Mars is actually a very cold place

English level: at least C1

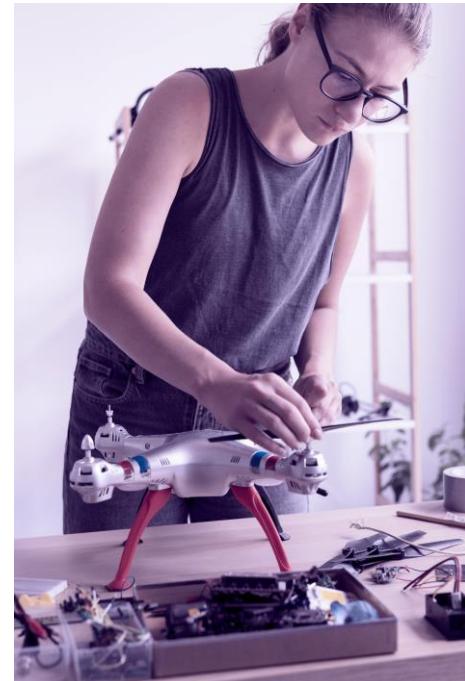
Jupiter is the biggest planet in the Solar System

Professional experience

Neptune is the farthest planet from the Sun

Motivation and interest

Saturn is a gas giant and has several rings



Main information you should know



Direction

Mars is actually a very cold planet



Credits

Mercury is the closest planet to the Sun



Language

Neptune is the farthest planet from the Sun



Application

Saturn is a gas giant and has rings



Attendance

Earth is the third planet from the Sun



Campus

Jupiter is the biggest planet of them all

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 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





90%

of our teaching staff has a PhD or
is a prestigious professional

97%

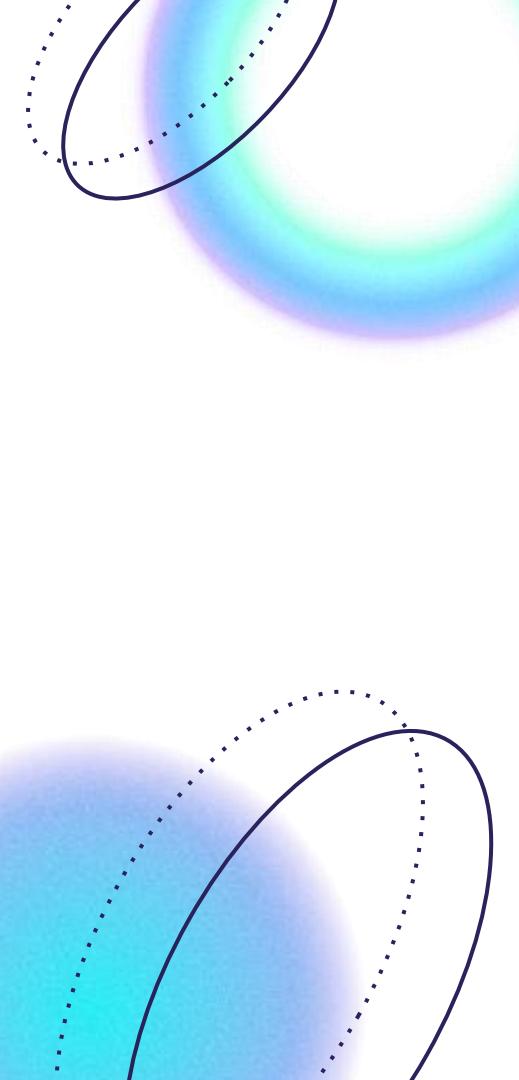
Employability rates in Aeronautical Engineering degree

40%

Minimum of continuous evaluation during the whole degree

98%

Of graduates believe the degree has helped them find work



Academic calendar

June 2022

		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

Classes

Venus is the second planet from the Sun

Exams

Saturn is a gas giant and has several rings

Subjects that we will cover

01. Computational aerodynamics

Venus is the second planet from the Sun

02. Advanced flight mechanics

Jupiter is the biggest planet in the Solar System

03. Air navigation systems

Despite being red, Mars is a cold place

04. Aerospace manufacturing

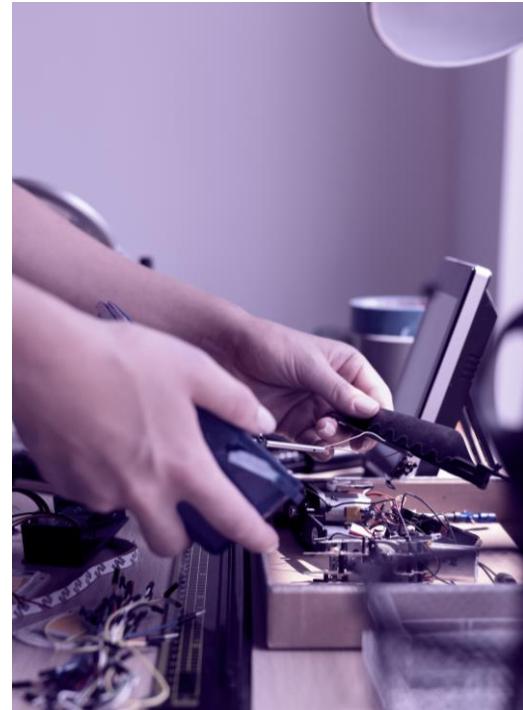
Saturn is a gas giant and has several rings



Enrollment fees

Aeronautical engineering

Reservation fee	€550
Price EU students	€32.58/ECTS
Price for non-EU students	€250.62/ECTS
Total of credits	120 ECTS



Skill set for aspirants

Speed and accuracy

- Mars is actually a very cold place

Strong responsibility

- Neptune is far away from Earth

Leadership qualities

- Saturn is the ringed planet

Height and strength

- Jupiter is the biggest planet

Top job profiles

Aeronautical engineers

Mars is actually a very cold planet

Electronic engineers

Jupiter is the biggest planet in the Solar System



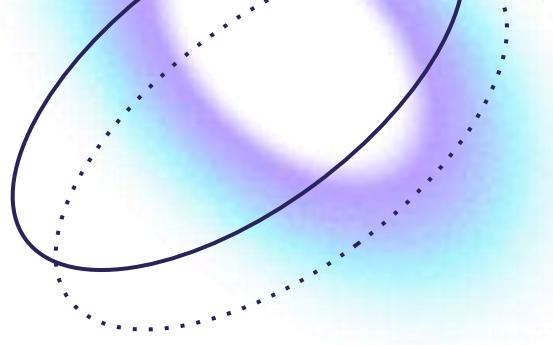
Mechanical engineers

Neptune is the farthest planet from the Sun

Flight engineers

Saturn is a gas giant and has several rings

Top recruiters



Top recruiters for Aeronautical Engineering

Air Venus	Venus is the second planet from the Sun
Mars Aviation Department	Mars is actually a very cold place
Jupiter Academy	Jupiter is the biggest planet of them all
Corporation of Saturn	Saturn is composed of hydrogen and helium
Neptune Aeronautical Lab	Neptune is the farthest planet from the Sun

Eligibility criteria

JEE main score

Mars is actually a very cold planet

High marks in PCM

Neptune is the farthest planet from the Sun

Diploma holders

Jupiter is the biggest planet of them all

Bachelor's degree

Mercury is the closest planet to the Sun

Economic solvency

Saturn is a gas giant and has several rings

First semester timetable

	Mon	Tue	Wed	Thur	Fri
8:00-9:00	Venus	Jupiter		Jupiter	Venus
9:30-10:30	Jupiter		Venus	Mercury	
10:30-11:30	Lunch break				
11:30-12:30	Venus		Jupiter		Mercury
12:30-13:30	Venus	Mercury	Mercury		Jupiter
13:30-14:30		Venus		Mercury	Jupiter

Teachers organization chart

Nicola
Gregor

Neptune is very far
away from Earth

Susan
Williams

Mars is actually a
very cold planet

Andrea
Conroy

Mercury is the
smallest planet

Timothy
King

Saturn is a gas giant
and has rings

James
Madison

Jupiter is the biggest
planet of them all

The two best universities

01

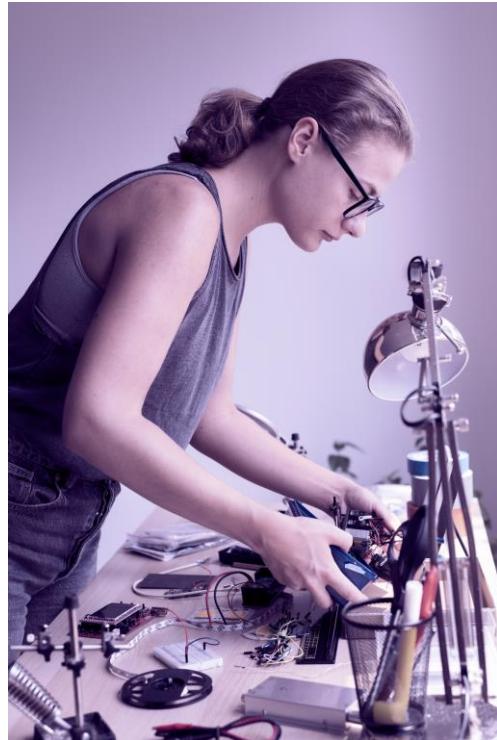
Madrid University

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

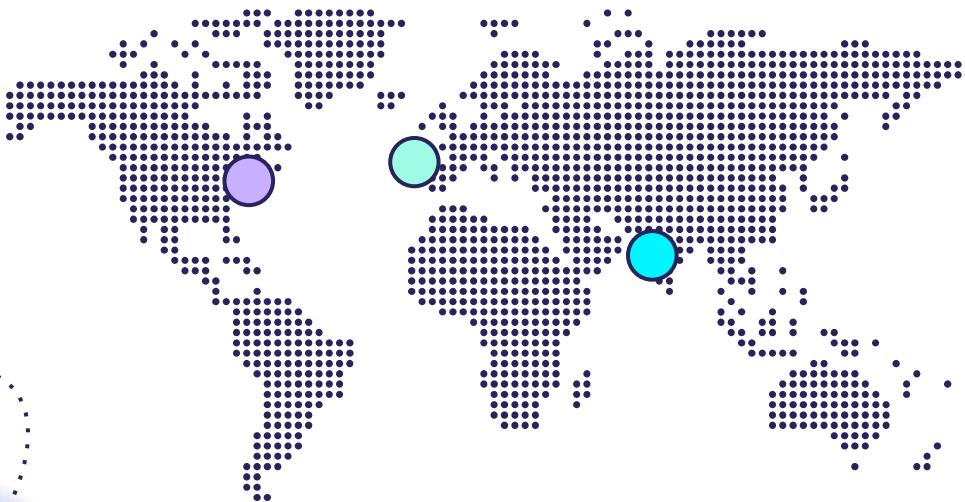
02

Georgia University

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



Universities all over the world



United States

Saturn is a gas giant
and has rings

Spain

Neptune is far away
from Earth

India

Jupiter is the biggest
planet of them all

How to become an engineer

Study maths and physics

Mars is actually a very cold planet

Air traffic controller

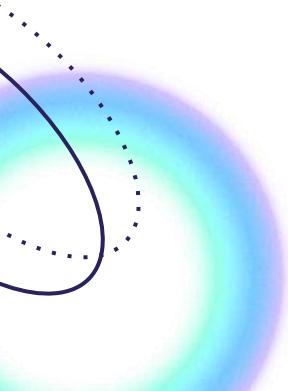
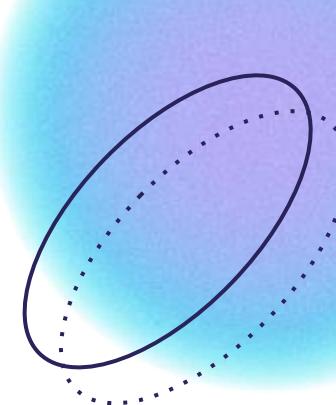
Saturn is a gas giant and has rings

Aerospace preparation

Mercury is the smallest planet

Technical skills

Jupiter is the biggest planet of them all



Students exams pass evolution



First exam

Saturn is a gas giant and has rings

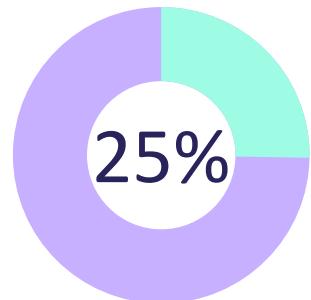


Second exam

Neptune is very far away from Earth

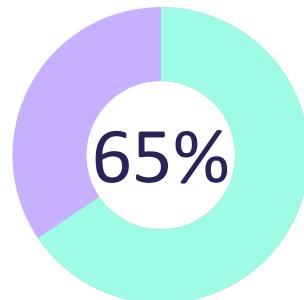
Follow the link in the graph to modify its data and then paste the new one here. **For more info, click here**

Passing rate by subject



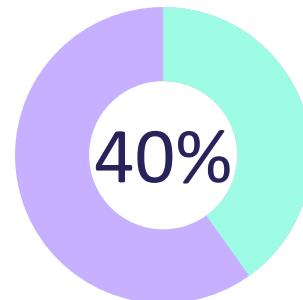
Engineering
physics

Venus is the second
planet from the Sun



Aircraft
structures

Jupiter is the biggest
planet of them all

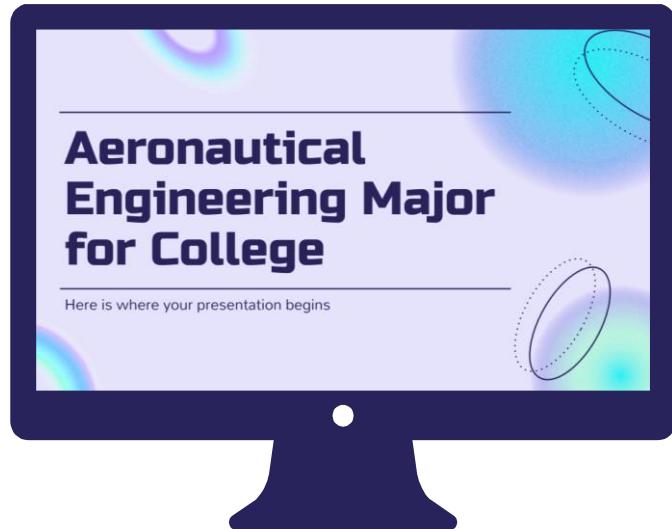


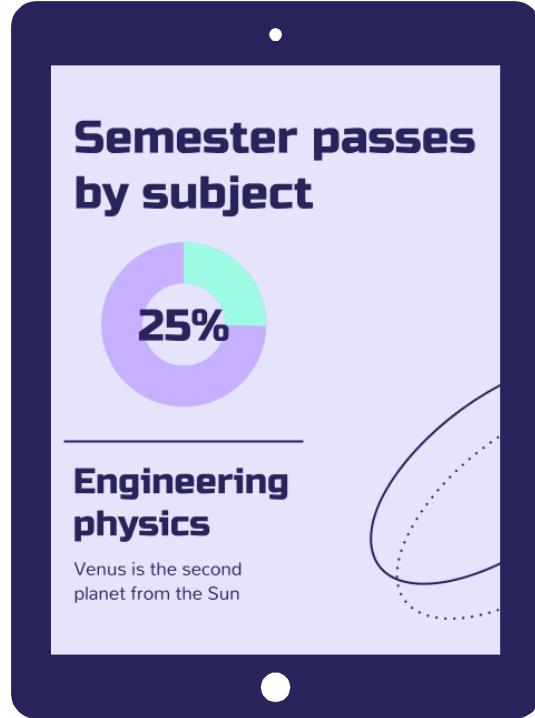
Numerical
methods

Saturn is a gas giant and
has several rings

Desktop software

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



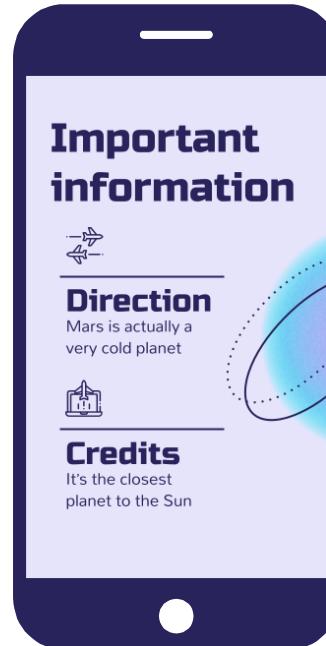


Tablet app

You can replace the image on the screen with your own work. Just right-click on it and select "Replace image"

Mobile web

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

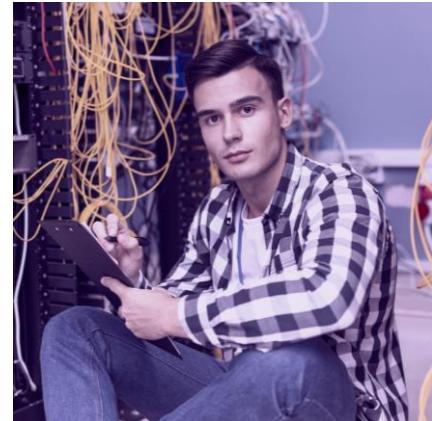


Our team



Sofia Hill

You can talk a bit about
this person here



Timmy Jimmy

You can talk a bit about
this person here

Thanks

Do you have any questions?

addyouremail@freepik.com

+91 620 421 88

yourcompany.com



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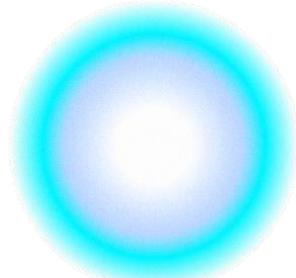
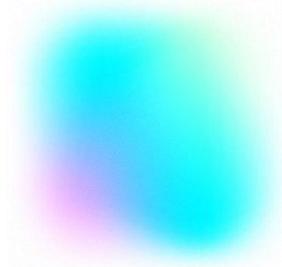
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Aviation icon pack



Alternative resources

- Gradient grainy shape collection



Alternative resources

Photos

- Young female inventor creating in her workshop
- Woman working in her workshop for a creative invention
- High angle of female technician with electronics and soldering iron
- Female inventor working at a new creation
- Woman working in her workshop for a creative invention
- Young network engineer with a box looking at ethernet switches
- Close-up of a male technician repairing cpu with screwdriver
- Young female inventor in her workshop
- Young female inventor creating in her workshop
- Boarding bridge connected to airplane
- Different car accessories arrangement
- Different car accessories arrangement

Resources

Photos

- Handsome engineer writing in clipboard
- Portrait of a beautiful woman engineer
- Young woman working in her workshop for a creative invention
- Woman working in her workshop for a creative invention
- Young female inventor in her workshop
- Young woman working in her workshop for a creative invention
- Woman working in her workshop for a creative invention
- Male technician repairing computer motherboard on wooden desk
- Mechanic fixing car motor
- Side view of chairs at airport
- Young female inventor in her workshop
- Wind farms fields

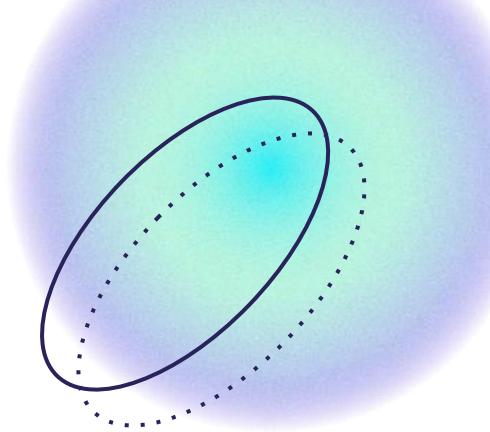
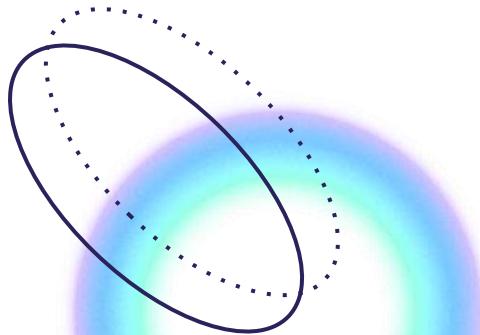
Resources

Vectors

- Gradient grainy shape collection

Icons

- Icon Pack: Aviation Lineal



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

Slidesgo

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

Russo One

<https://fonts.google.com/specimen/Russo+One>

<https://fonts.google.com/specimen/Mallanna>



#000000



#29235c



#00f5ff



#9efce5



#c7b0ff

how it works.



Pana



Amico



Bro

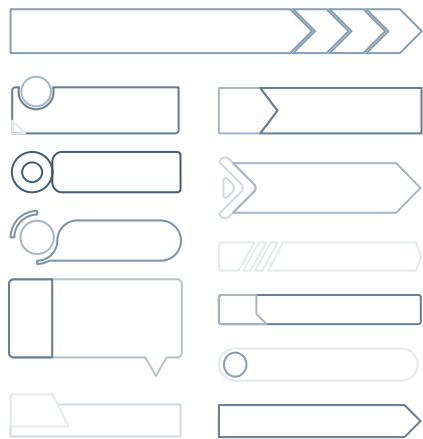


Rafiki

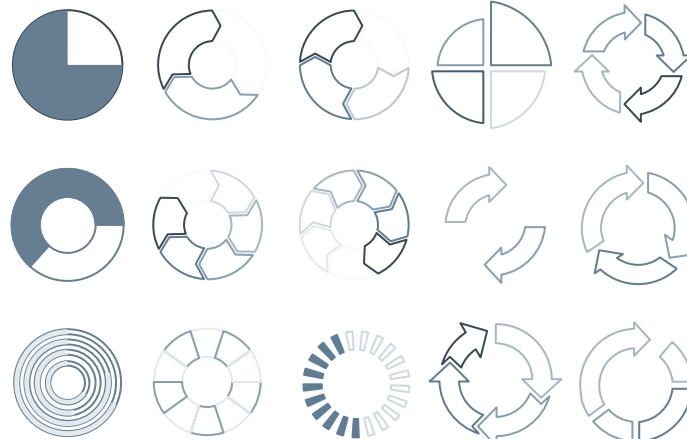


Cuate

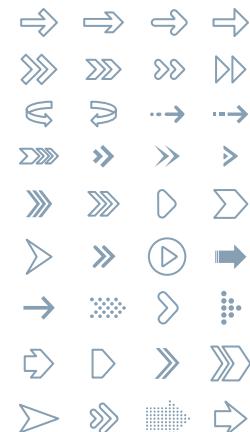
resize



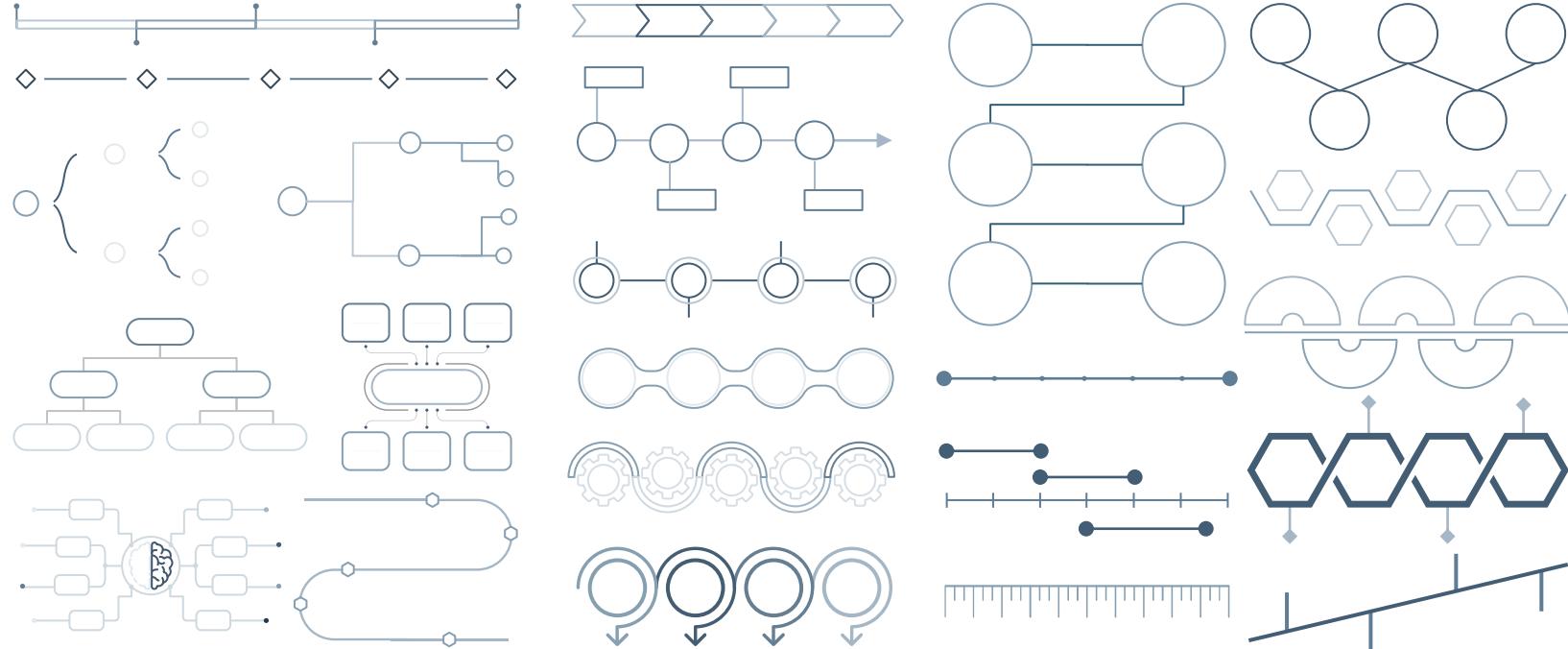
change the color

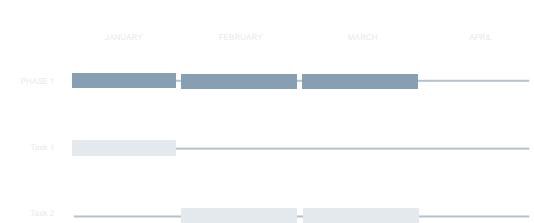
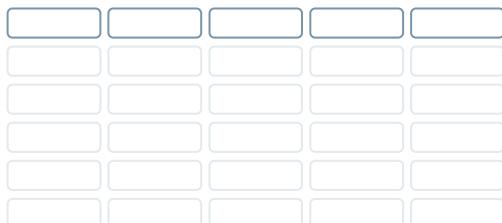
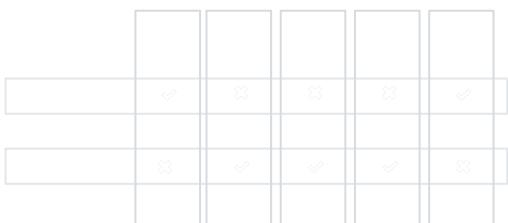
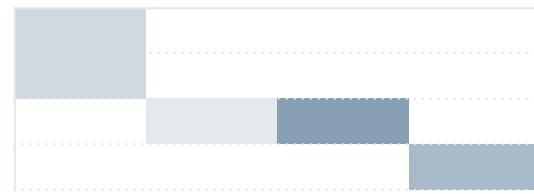
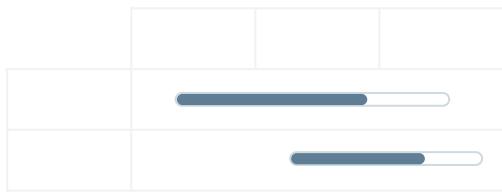
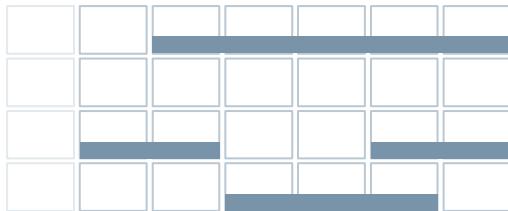


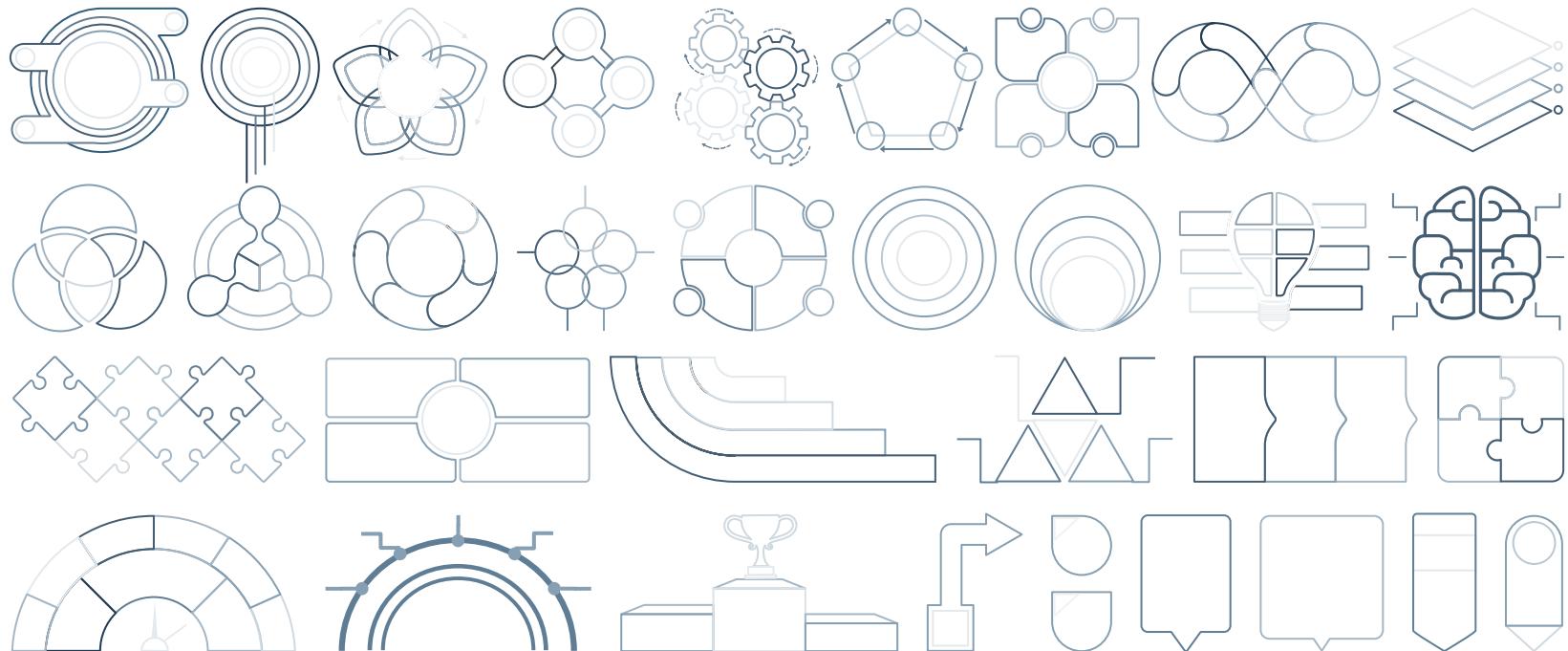
infographics

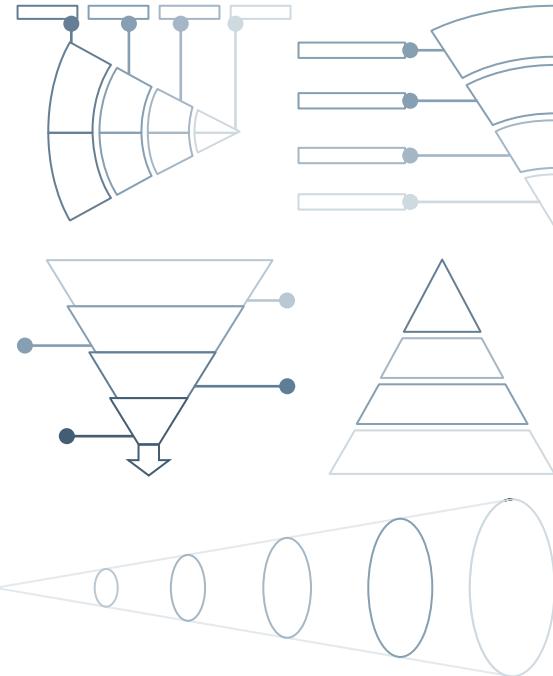
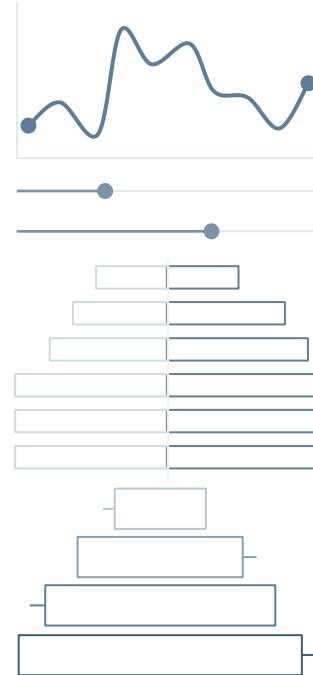
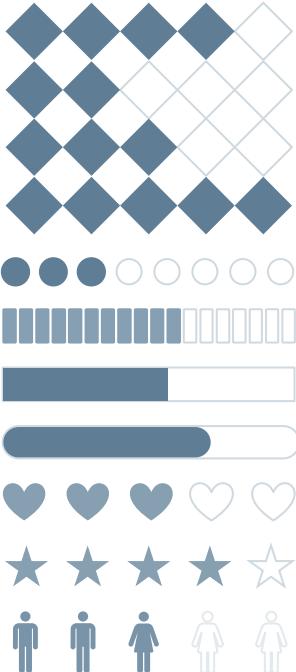
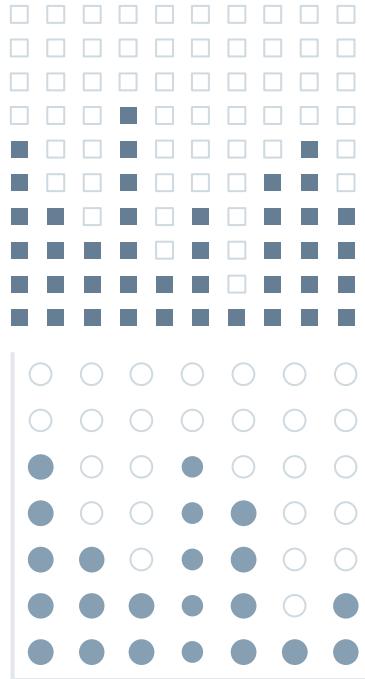












resize
change the stroke and fill color
Flaticon's extension

paint bucket/pen



