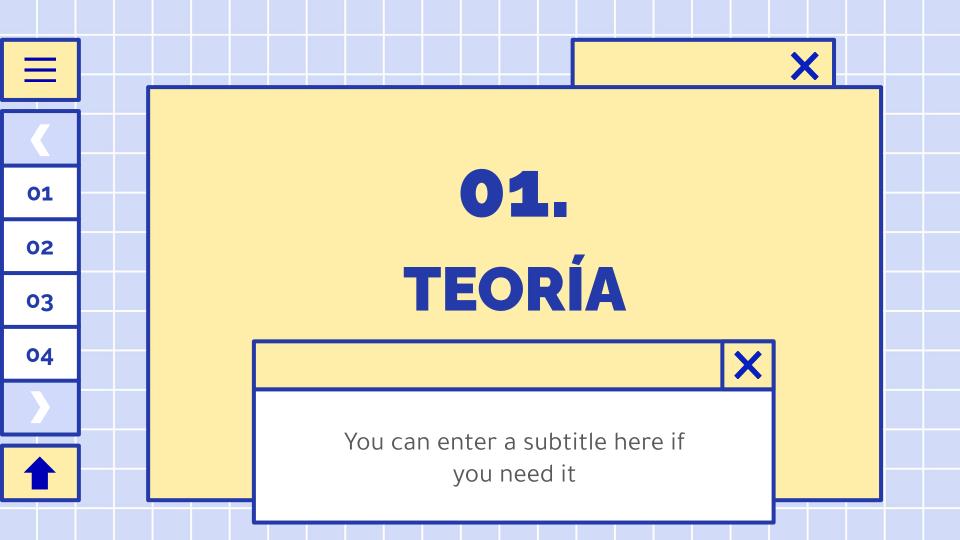


# Ayudant-IA 3: NEGACIÓN Y MODELACIÓN EN CLINGO

Felipe Guzman (faguzman2@uc.cl)
Ignacio Urrutia (ignacio.urrutia@uc.cl)

**ENTER** 





# **REGLA**



01

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04





h1, h2, h3, ... b1, b2, b3, ...



Intuición

Si se cumple todo en Body, entonces, se debe cumplir algo de Head



03

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# **PROGRAMA**



Head1 ← Body1

Head2 ← Body2

Head3 ← Body3

Head4 ← Body4

Head5 ← Body5

...







# **MODELO DEL PROGRAMA**



**(** 

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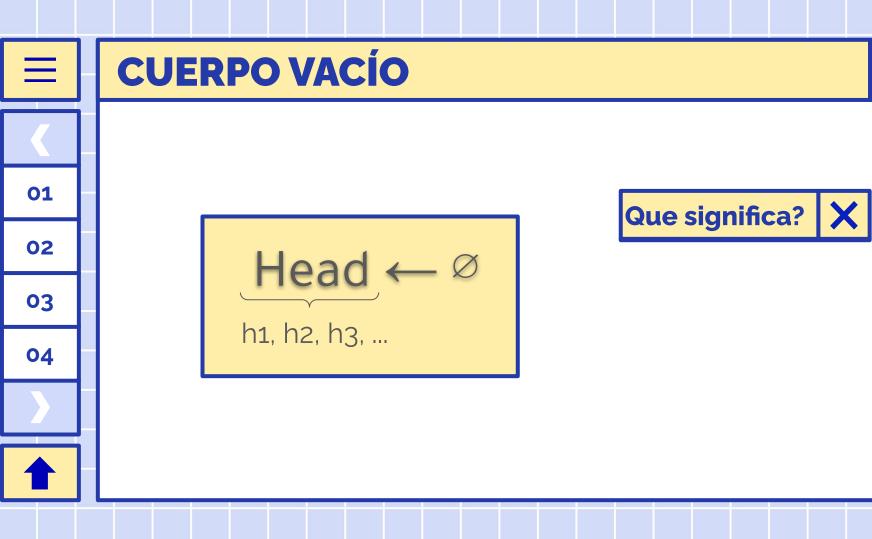


...

Head1 ← Body1 Head2 ← Body2 Head3 ← Body3 Head4 ← Body4 Head5 ← Body5

Modelo de  $\Pi$ 

Conjunto minimal de átomos que satisface todas las reglas del programa Π













# **CUERPO VACÍO**





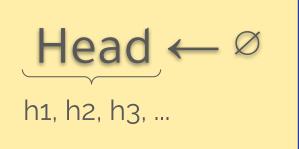
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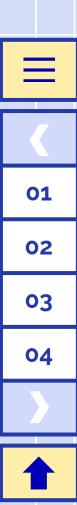




# Que significa?



Body se cumple trivialmente, por lo que siempre se debe cumplir algo de head para satisfacer la regla.



# **CABEZA VACÍA**



Que significa?





# **CABEZA VACÍA**





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# Que significa?



No se puede satisfacer Head por lo que se quitan todos los modelos que incluyan Body.





# **REDUCCIÓN**



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1.  $\Pi^{\mathsf{X}} := \Pi$ 

2. Para toda regla Head ←Pos U not(Neg)

**Borrar** 

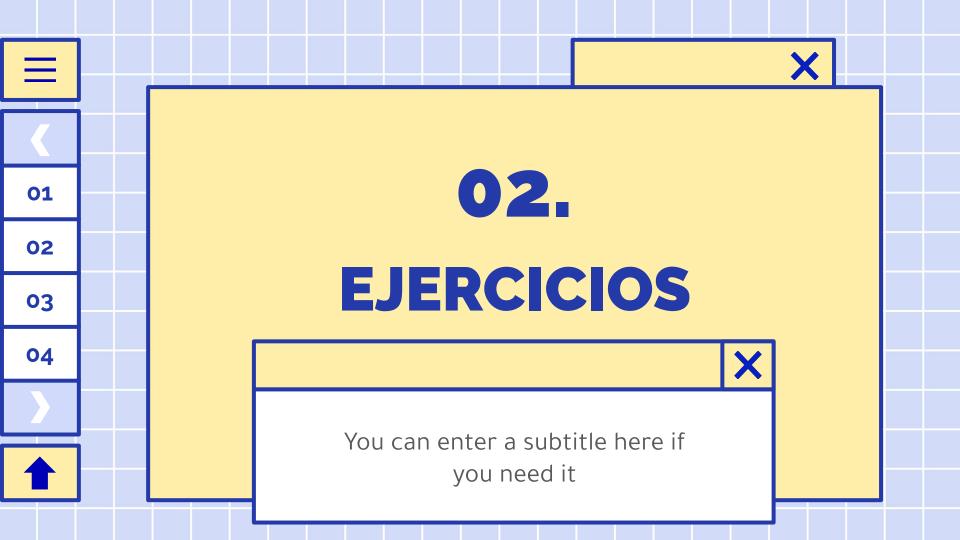


Cuando **Neg ∩ X** ≠ Ø

Reemplazar



Por **Head**  $\leftarrow$  **Pos** Cuando **Neg**  $\cap$  **X** =  $\emptyset$ 





## **PAINTBALL**





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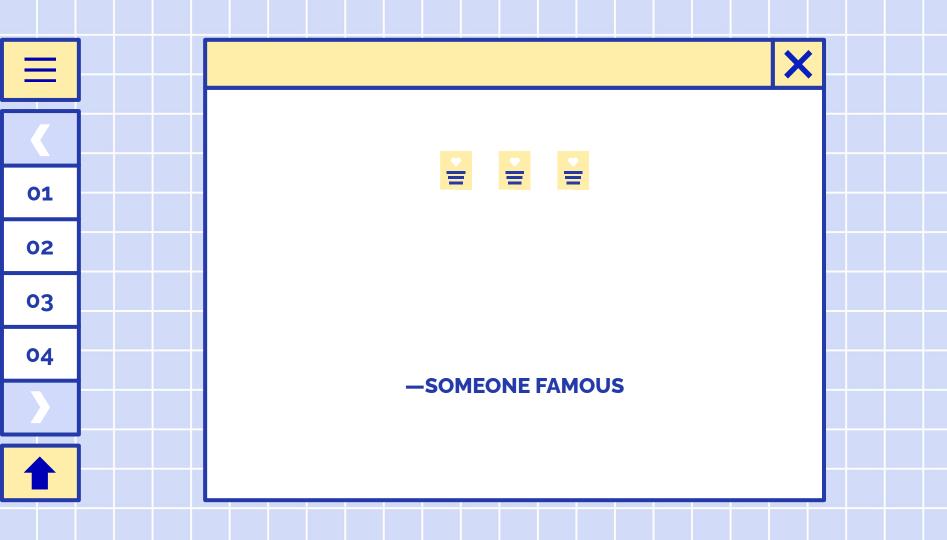
04



### **REGLAS**

- Cada jugador está en un lugar.
- Desde cada lugar se puede apuntar a "n" lugares distintos.
- En cada turno, si un jugador está vivo, este puede disparar o recargar.
- Cuando un jugador dispara, el disparo va a uno de los lugares a los que este apunta.
- Si un jugador recarga, se esconde por lo que no recibe un disparo.
- Un jugador muere cuando recibe un disparo.
- Un jugador puede recargar/esconderse a lo más dos veces en la partida.









# **TABLE OF CONTENTS**





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### INTRODUCTION

Here you could describe the topic of the section

### **ANALYSIS**

Here you could describe the topic of the section

### **PRESENTATION**

Here you could describe the topic of the section

### **CONCLUSION**

Here you could describe the topic of the section



# **DIVIDE THE CONTENT!**





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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



# YOU COULD USE THREE COLUMNS





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### **MARS**

Despite being red, Mars is a cold place

### **JUPITER**

It's a gas giant and the biggest planet

### **SATURN**

Yes, this is the ringed one. It's a gas giant









01

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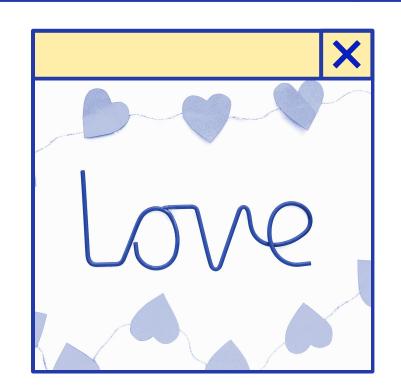
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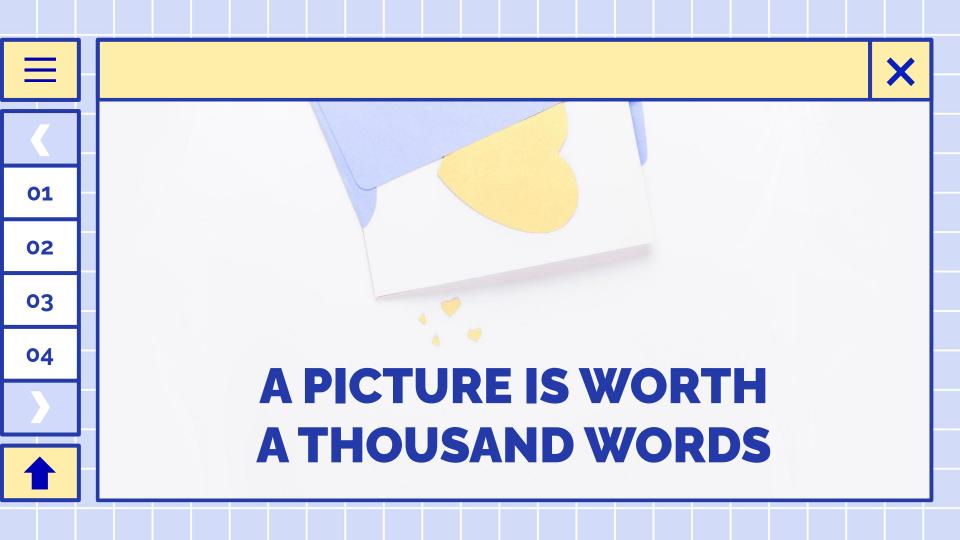




# A PICTURE ALWAYS REINFORCES THE CONCEPT

Images reveal large amounts of data, so remember: use an image instead of a long text









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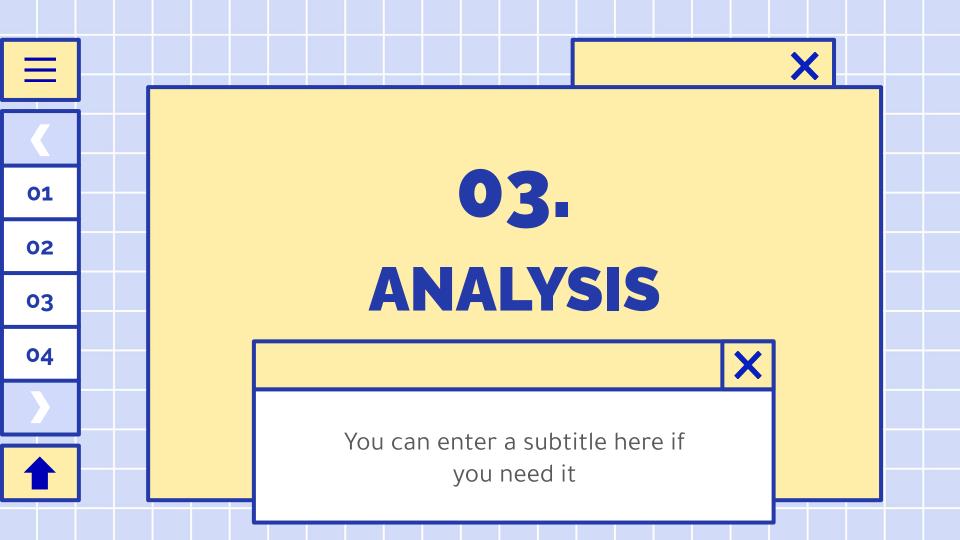
04



# **AWESOME WORDS**



Because key words are great for catching your audience's attention





# THIS IS A GRAPH





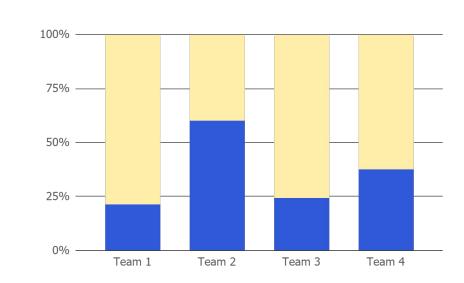
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20,000

Despite being red, Mars is a cold place

5,000

It's a gas giant and the biggest planet

To modify this graph, click on the link, change the data and paste the new graph here



# **REVIEWING CONCEPTS**





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### **MERCURY**

Mercury is the smallest planet

### **JUPITER**

It's the biggest planet of them all

### **VENUS**

Venus has a beautiful name

### **SATURN**

Saturn is the ringed one and a gas giant

### **MARS**

Despite being red, Mars is a cold place

### **NEPTUNE**

Neptune is the farthest planet



# THIS IS AN INFOGRAPHIC





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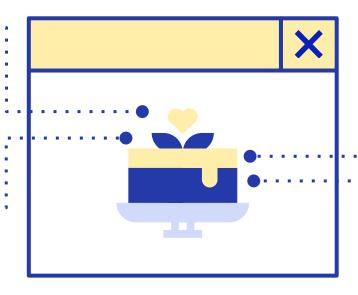


### **MERCURY**····

Mercury is the smallest planet

### **JUPITER**····

This is quite a big planet



### **NEPTUNE**

Neptune is the farthest planet

### ···MARS

Mars is a very cold place



# **A TABLE**



<

1	}
_	

	VENUS	JUPITER	MARS	X
MERCURY	0.06	0.38	0.38	
NEPTUNE	0.11	0.63	0.38	
SATURN	95.2	9.4	1.16	



# THIS IS A MAP





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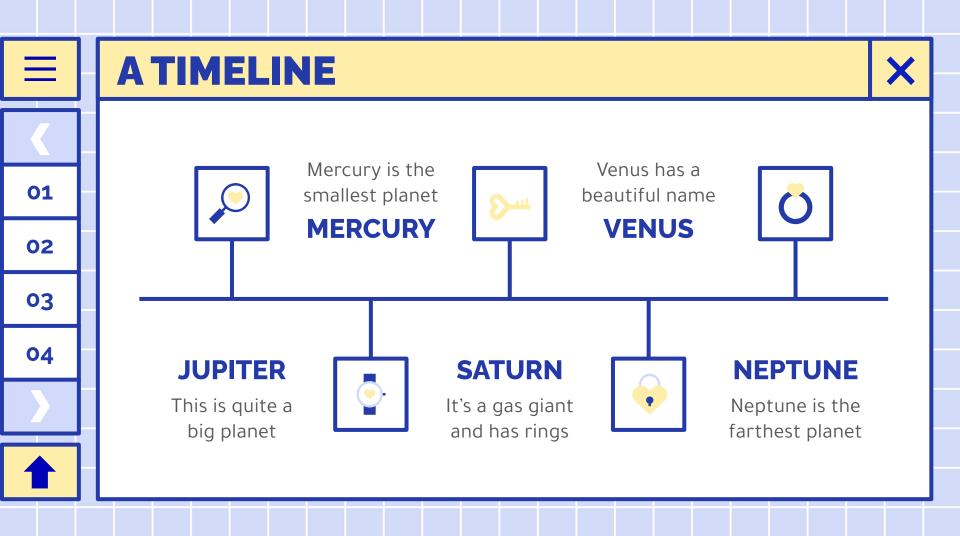
Neptune is the farthest planet



Mars is a very cold place

### **MERCURY**

Mercury is the smallest planet







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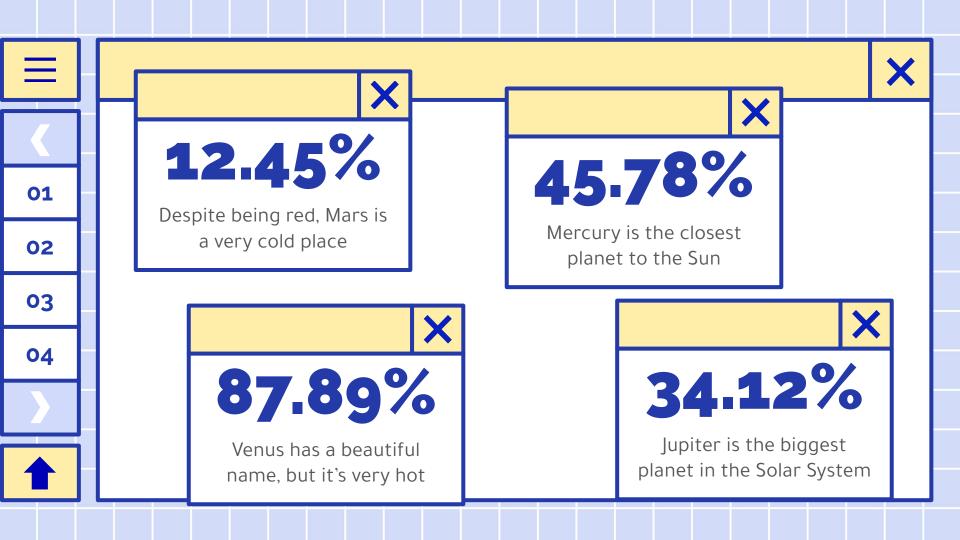


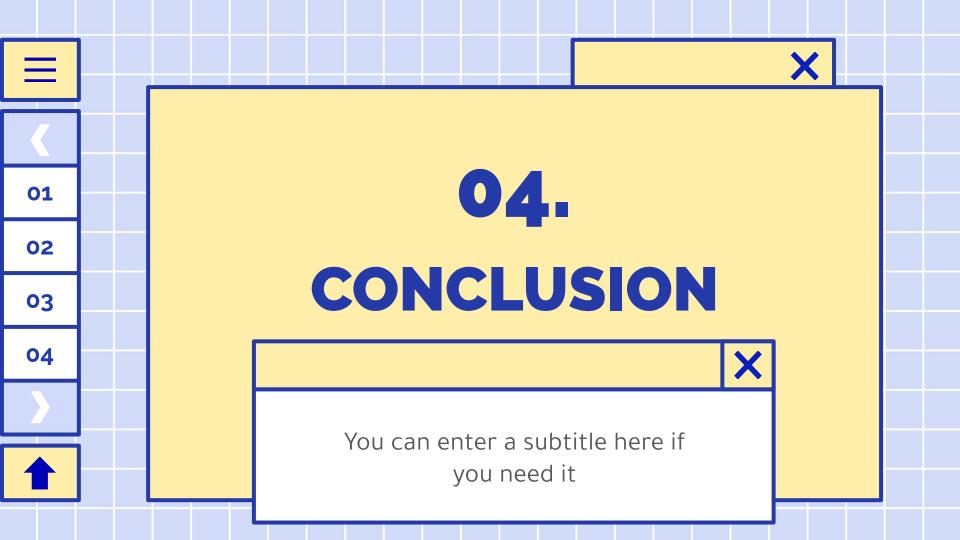


# 4,498,300,000



Big numbers catch your audience's attention







# **OUR SERVICES**





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# FREE X

You can explain here your product or your service

- Characteristic
- Characteristic
- Characteristic

\$0

### **BASIC**



- Characteristic
- Characteristic
- Characteristic

\$35

### **PREMIUM**



You can explain here your product or your service

- Characteristic
- Characteristic
- Characteristic

\$60



# **DON'T FORGET WHAT'S IMPORTANT**



**《** 

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04



• Write your recommendations here

• Write your recommendations here

Write your recommendations here

• Write your recommendations here

• Write your recommendations here

Write your recommendations here

Write your recommendations here



# **DESKTOP SOFTWARE**



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You can replace the image on the screen with your own work. Just delete this one, add yours and center it properly





# **TABLET APP**





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You can replace the image on the screen with your own work. Just delete this one, add yours and center it properly



# **MOBILE WEB**



**<** 

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You can replace the image on the screen with your own work. Just delete this one, add yours and center it properly





# **OUR TEAM**





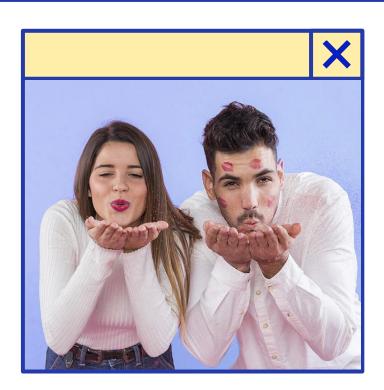
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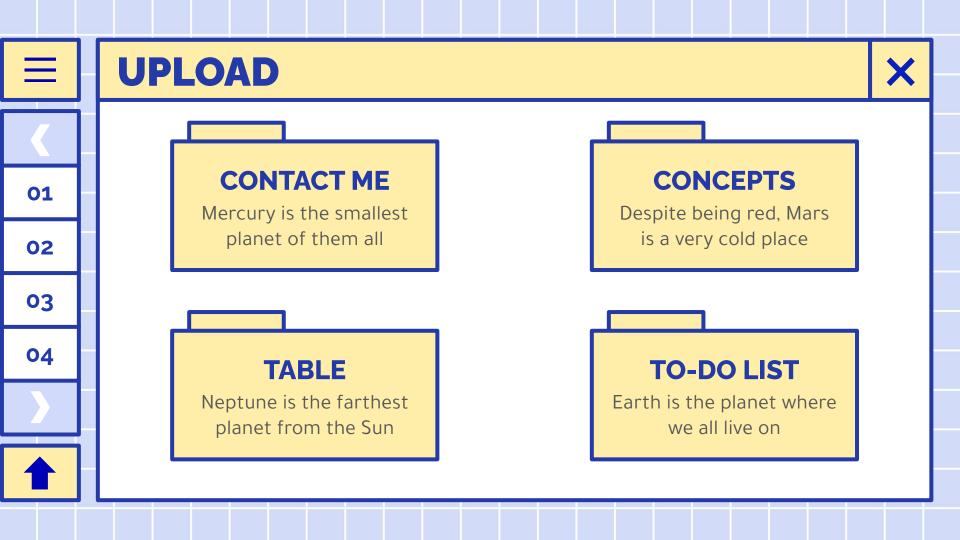


### **JOHN DOE**

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

### **ANA SMITH**

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









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# THANKS!









Do you have any questions?

addyouremail@freepik.com +91 620 421 838 yourcompany.com

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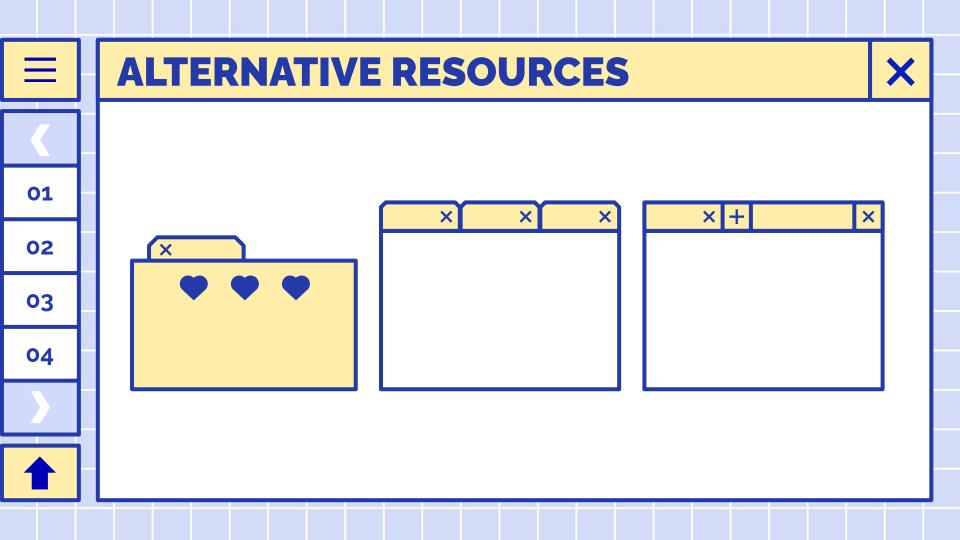














# **RESOURCES**





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#### **PHOTO**

- Red love inscription with paper hearts
- Greeting card with heart in envelope
- Young couple blowing kisses on pink background

## **ICON**

Love Icon Pack

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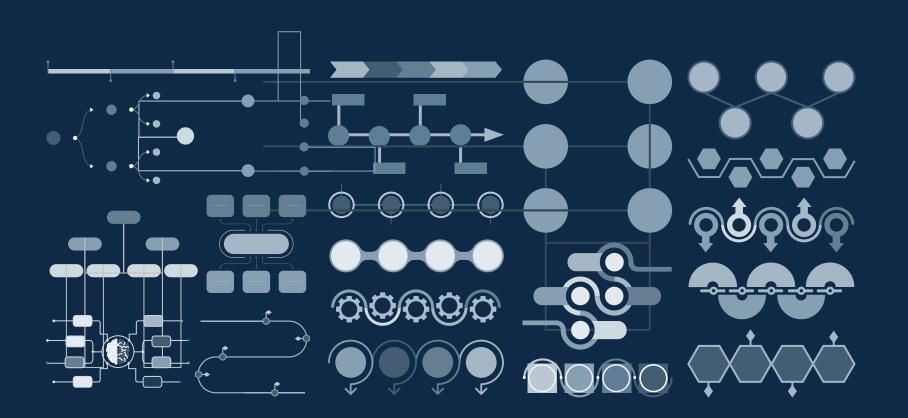
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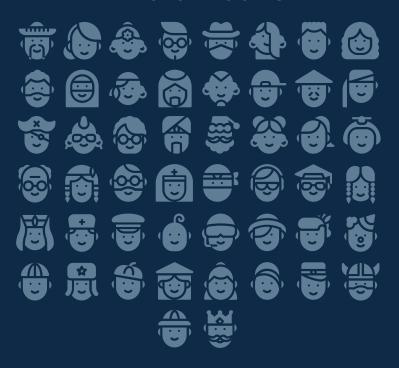
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