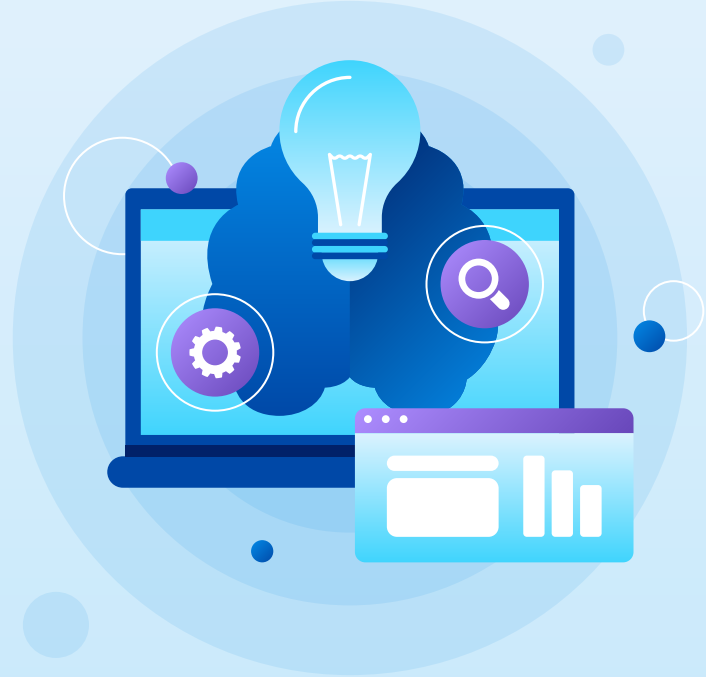


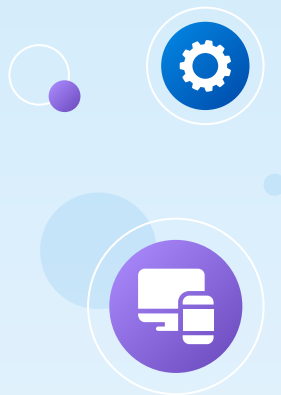
Presentación de Trabajos Prácticos

Alumno: Manfredi Angelo Santiago
(tengo dislexia, sepa entender)



Contenido de la presentación

- 01 Problema de grados de separación
- 02 Solución al problema de grados de separación
- 03 Problema de cómo resolver un buscaminas
- 04 Solución al buscaminas
- 05 Conclusión
- 06 Preguntas



01

Problema de grados de separación →



Problemática de grados de separación



¿En que consiste?

Encontrar la conexión más corta entre dos actores o actrices mediante las películas en las que han trabajado en común. Utilizando un algoritmo de búsqueda de rutas

Posibles soluciones

- Búsqueda en Anchura(BFS)
- Búsqueda en Profundidad(DFS)
- A y Dijkstra*

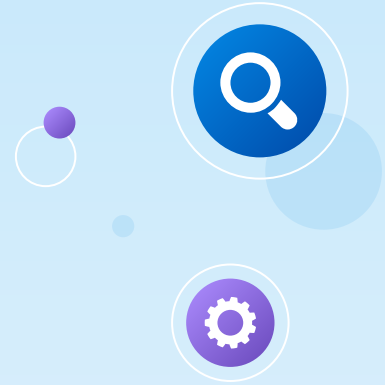
Herramientas

Vamos a utilizar:

- Python
- Algoritmo de BFS
- Estructuras de datos

02

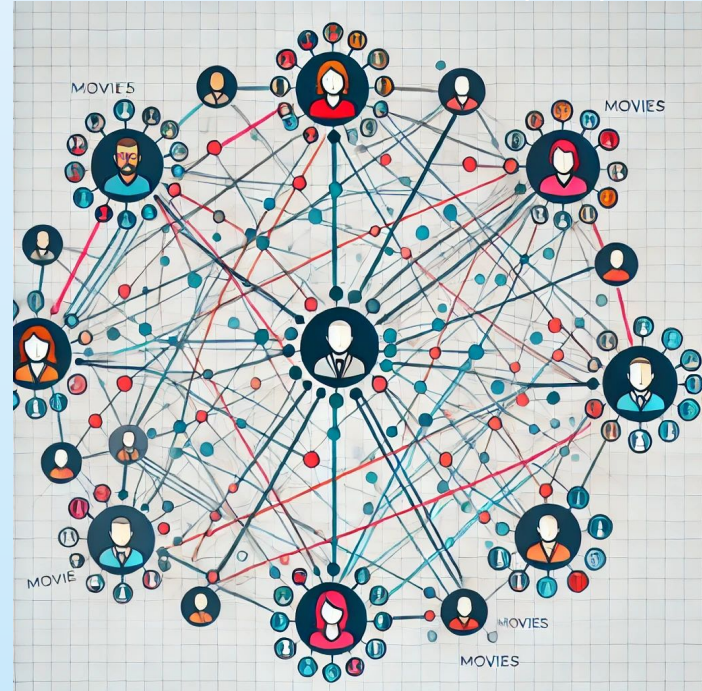
**Solu. al problema
grados de
separación →**



Resolución

Funcionamiento del Algoritmo:

- Inicializamos en el actor de origen.
- Se exploran todas las películas en las que ha trabajado.
- Los co-actores de esas películas son añadidos a una lista para seguir explorando.
- El proceso se repite hasta encontrar el actor destino, asegurando que la primera vez que se le encuentra, es a través del menor número de conexiones.



```

def shortest_path(source, target):
    """
    Returns the shortest list of (movie_id, person_id) pairs
    that connect the source to the target.

    If no possible path, returns None.
    """
    # Initialize frontier to just the starting position
    start = Node(state=source, parent=None, action=None)
    frontier = QueueFrontier()
    frontier.add(start)

    # Initialize an empty explored set
    explored = set()

    # Keep looping until solution is found
    while not frontier.empty():
        # Choose a node from the frontier
        node = frontier.remove()

        # If node is the target, then we have a solution
        if node.state == target:
            path = []
            while node.parent is not None:
                path.append((node.action, node.state))
                node = node.parent
            path.reverse()
            return path

        # Mark node as explored
        explored.add(node.state)

        # get neighbors of node
        neighbors = neighbors_for_person(node.state)

        # expand and add the neighbors to the frontier
        for action, state in neighbors:
            if not frontier.contains_state(state) and state not in explored:
                child = Node(state=state, parent=node, action=action)
                frontier.add(child)

    # if no solution found
    return None

```



03

**Problema de cómo
resolver un
buscaminas →**



Problemática de grados de separación



¿En que consiste?

El problema es desarrollar una Inteligencia Artificial que juegue Buscaminas. La IA utiliza deducción lógica para descubrir celdas seguras basándose en la información revelada por el tablero

Posibles soluciones

- Deducción lógica
- Estrategias aleatorias
- Metodos probabilisticos

Herramientas

Vamos a utilizar:

- Python
- Deducción logica
- Movimientos aleatorios

04

Solución al buscaminas →



Resolución

Funcionamiento del Algoritmo:

- La IA analiza las celdas descubiertas y compara los números indicados (que representan el número de minas adyacentes).
- Si la cantidad de minas posibles coincide con los números, la IA deduce qué celdas contienen minas y marca dichas celdas.
- Posteriormente, la IA selecciona celdas seguras y las descubre. Si no hay suficiente información, la IA realiza un movimiento aleatorio.



05

Conclusiones →



Con. de los trabajos realizados



Aplicación de algoritmos

Exploramos el uso de algoritmos como BFS para poder dar solución al problema de los grados de separación

Imp. logica proposicional

Se utilizó la lógica proposicional para poder encontrar resoluciones al buscaminas

Posibles aplicaciones en otras áreas

Pudimos hacer una investigación de como estos algoritmos podrían estar implementados en otras áreas del mundo real para poder comprenderlas de mejor manera

06

Preguntas →



Muchas Gracias

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Contents of this template



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<u>Fonts</u>	To view this template correctly in PowerPoint, download and install the fonts we used
<u>Used and alternative resources</u>	An assortment of graphic resources that are suitable for use in this presentation
<u>Thanks slide</u>	You must keep it so that proper credits for our design are given
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About pitch deck

A pitch deck is a short presentation that entrepreneurs use to describe their business and present it to potential investors. It usually consists of about 10 slides that provide:

- An overview of the company's mission, product and service
- Market opportunity
- Team, financials, etc.

The goal is to garner enough interest from investors so that they are motivated to invest in the business



Introduction



Our company

The introduction of your company in the pitch deck should include a brief overview of who you are and what you do. It should also include a brief description of why your product or service is unique and the value it provides to customers

Our idea

The “our idea” part of a pitch deck should include an explanation of your product/service, how it works, and what the customer value is. You should also explain the market opportunity for your product/service

Main ideas of a pitch deck



Presentation

A great presentation for a pitch deck should be concise, clear and easy to understand. Visual elements such as charts, graphs, images, and videos can help to make the presentation engaging

Investors

When it comes to picking investors for a pitch deck, it's important to research potential investors and understand their preferences, goals and interests

Value

The value of a product is determined by how much customers are willing to pay for it. It's a combination of factors, including the quality of the product, its features, and how well it meets customer needs

Main ideas of a pitch deck



Research new markets

Analyze existing customer needs and identify gaps in the market to find new opportunities

Innovative solutions

Utilize technology and customer feedback to come up with novel solutions that meet your customer's demands or needs

Stay ahead of trends

Monitor changes in the marketplace, such as shifts in consumer behavior or emerging technologies, to stay competitive and capitalize on new opportunities and trends

Seasonal spikes

Identify times of year when demand for certain products may spike, such as holidays or special occasions, and use these times to target customers or maximize sales

Six recommendations

Keep it simple

Structure your pitch deck clearly and make sure all the important points are easy to understand

Use visuals

Incorporate visuals or graphics to illustrate your message and keep the audience engaged

Keep it short

A good pitch deck should be concise and clear; avoid trying to cram in too much information

Make it memorable

Include impactful stories, statistics, or facts that will help your audience remember your message afterwards

Test & iterate

Practice presenting your deck beforehand with friends or colleagues for feedback, then use this input to refine it further

Main points

A pitch deck is an overview of your business; focus on key points that get the most important ideas across

333,000 →

Users bought our product

9h 55m 23s →

Estimated delivery time per unit

386,000 km →

Avg. distance travelled by logistics team



4,498,300,000 →

Number of users analyzed in our market research

Revenue by quarter



Q1

January – March



Q2

April – June



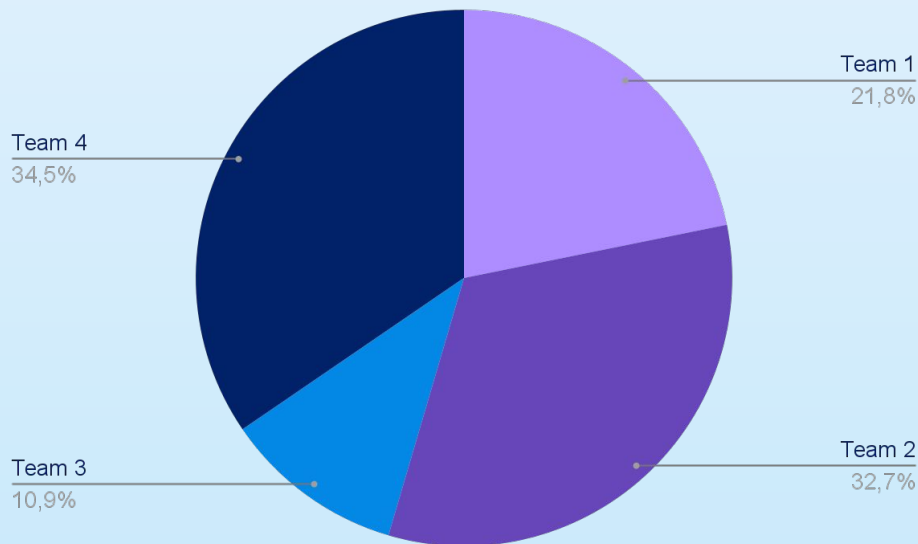
Q3

July – September



Q4

October – December



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

Competition comparison

	Features	Value	Pricing	Trial	Competence	Share
Company A	Fuel economy	Special offers	\$23,000	No	Low	8%
Company B	Design	Reliability	\$27,000	No	Low	5%
Company C	Performance	Repairs	\$30,000	Yes	High	20%
Company D	Safety features	Marketing	\$24,000	No	High	22%
Company E	Technology	Customers	\$32,000	Yes	Low	10%
Company F	Comfort	Best prices	\$15,000	Yes	High	30%
Company G	Customization	Brand name	\$45,000	No	Low	5%

Product infographic



Visuals

Showcase the design of your product



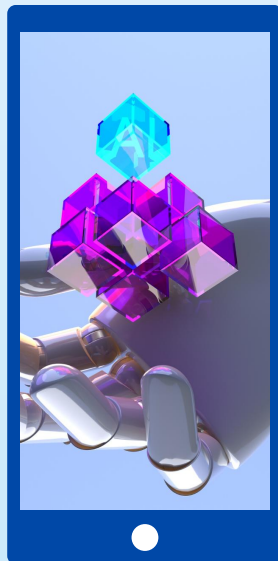
Price

Share the cost and price with investors



Availability

When is the product expected to be ready?



Features

What makes your product unique?



Users

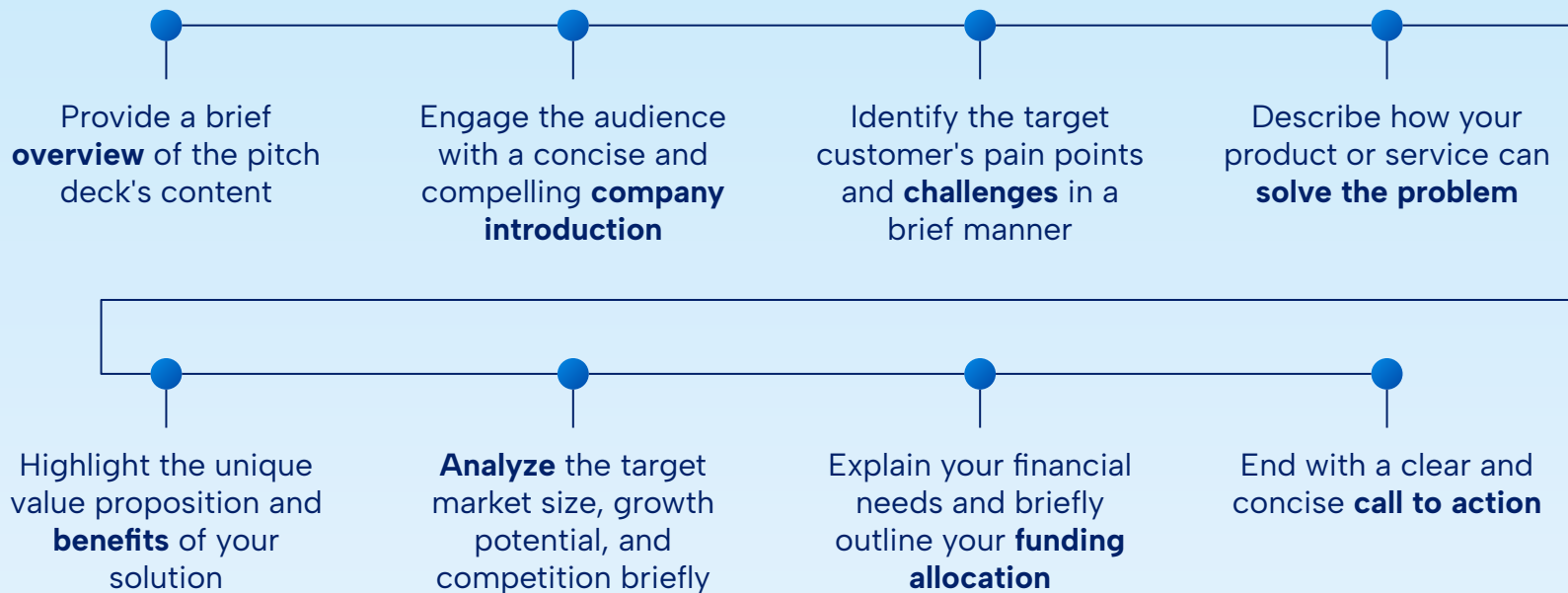
Speak about the target audience



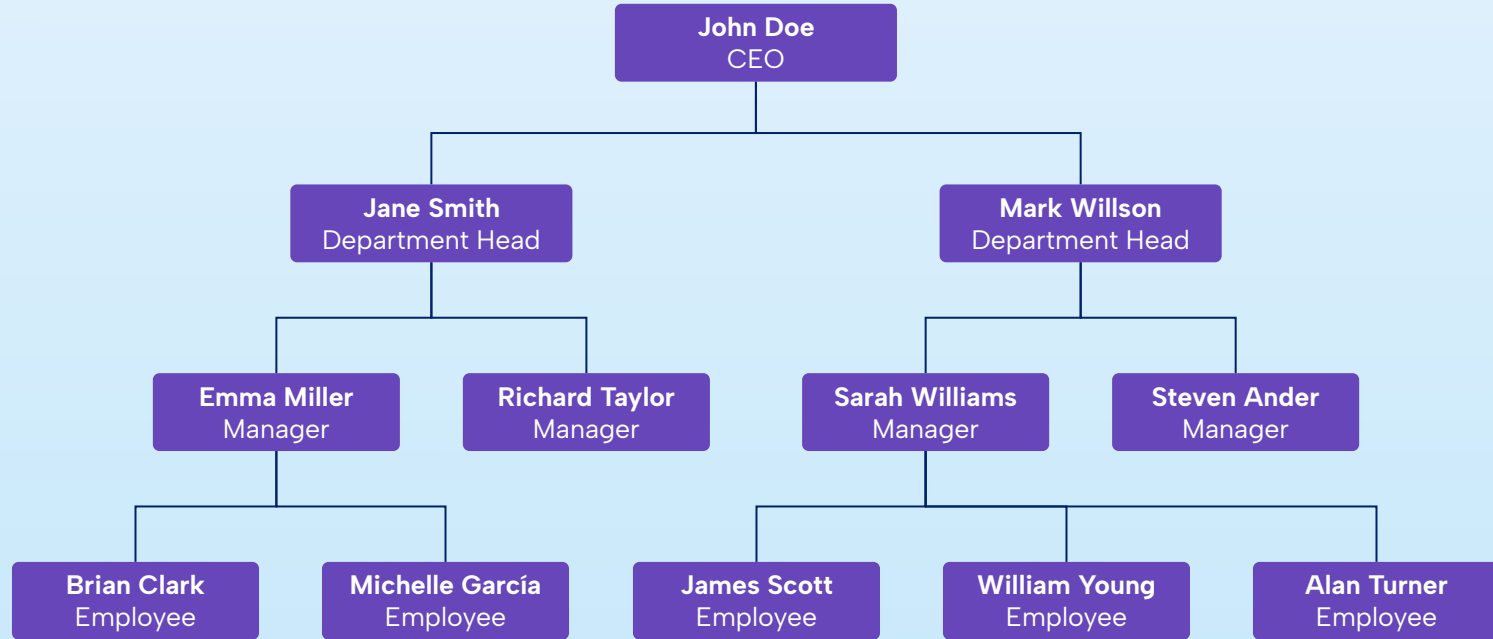
Updates

Do you plan on updating it?

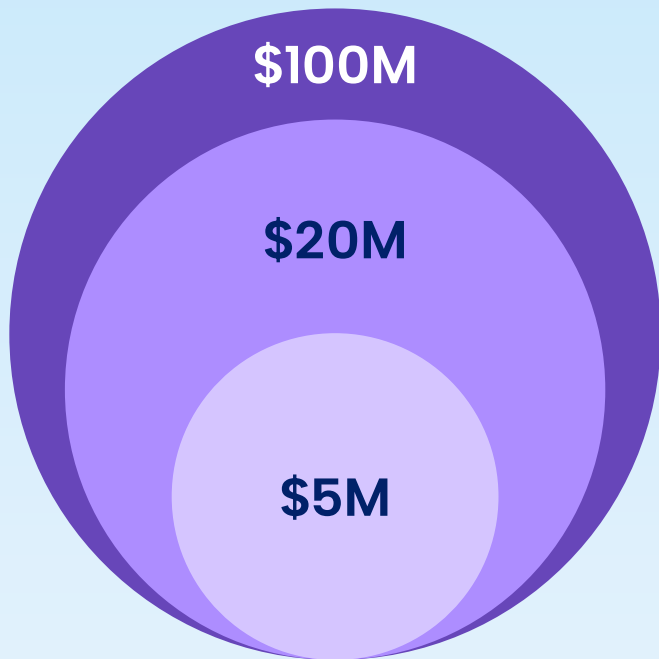
Timeline of your presentation



Organizational chart



Market size overview



Outer circle

Include the total size of the market, which represents the entire potential customer base for the product or service

Middle circle

Identify the target market for the product or service, which may be a subset of the total market. This could be based on factors such as demographics, geography, or specific needs

Inner circle

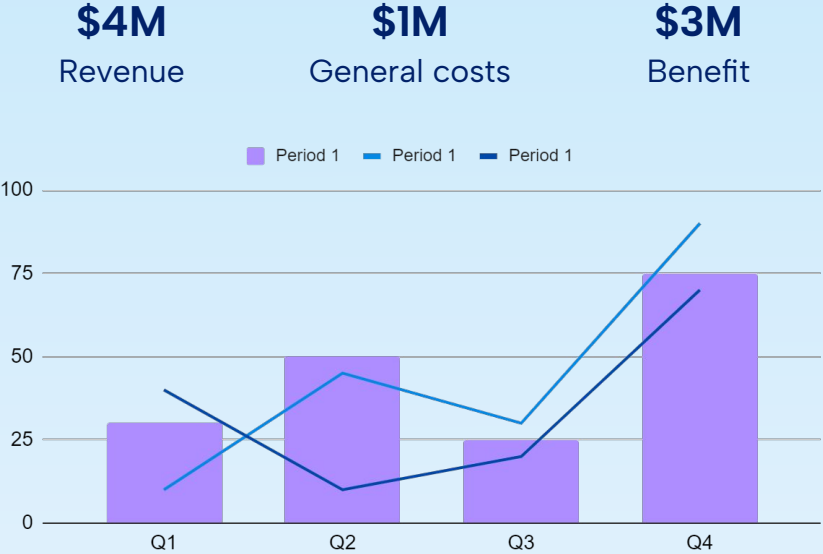
Indicate the current market size, which represents the portion of the target market that the company has successfully captured

Roadmap infographic

[illegible]

KPI dashboard

Product	Units	Revenue	Returns
Item 1	500	2,000,000	40
Item 2	1,000	50,750	10
Item 3	250	1,500,000	300
Item 4	500	2,000,000	40
Item 5	1,000	50,750	10
Item 6	250	1,500,000	300
Item 7	500	2,000,000	40
Item 8	1,000	50,750	10



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- Robotic process automation illustration



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- Ai cloud concept with robot arm
- Ai cloud concept with robot hand

Vectors

- Abstract creative website hosting illustration
- Robotic process automation illustration
- Natural language processing illustration



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Pana



Amico



Bro



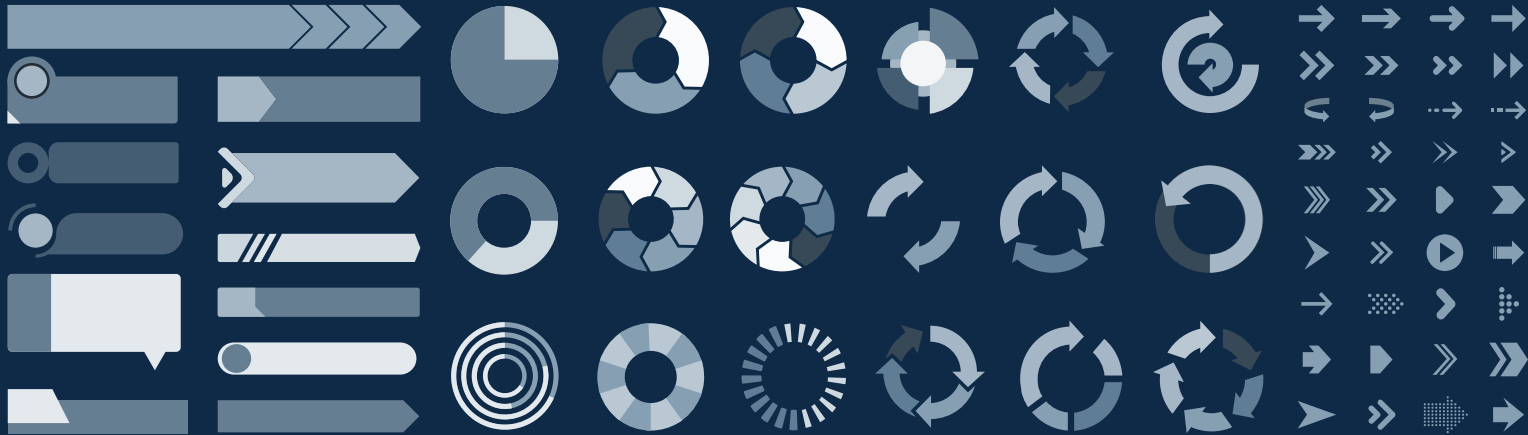
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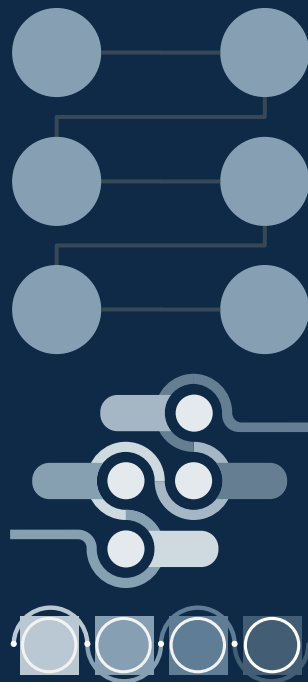
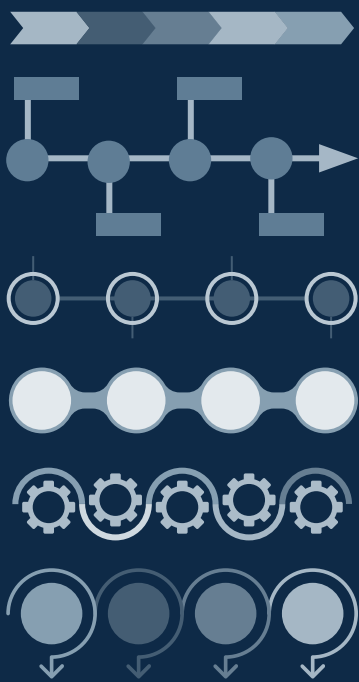
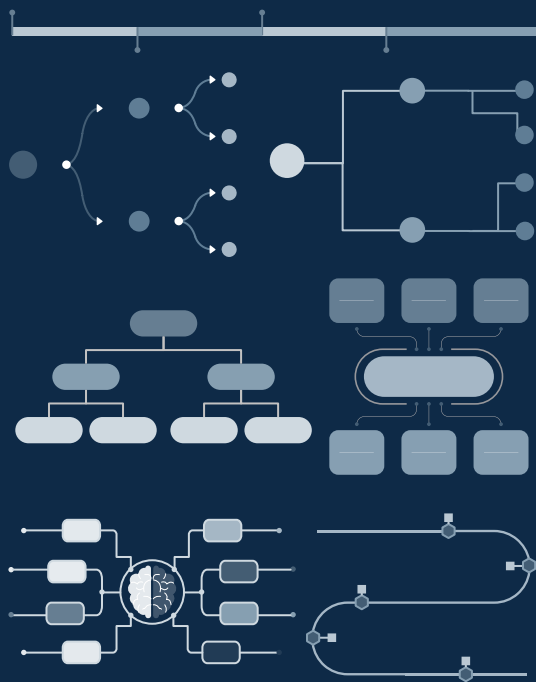
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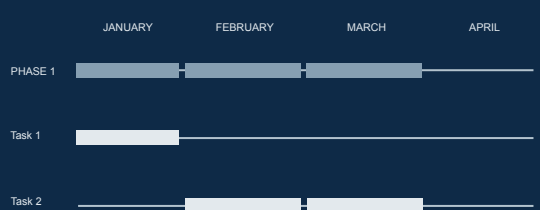
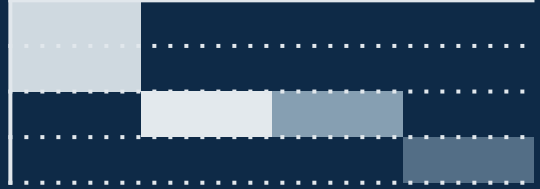
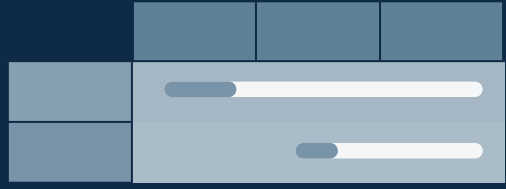
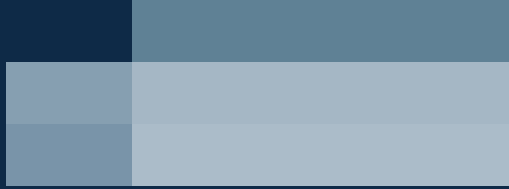
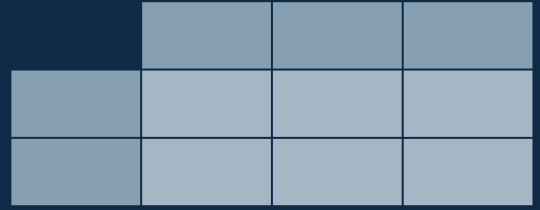
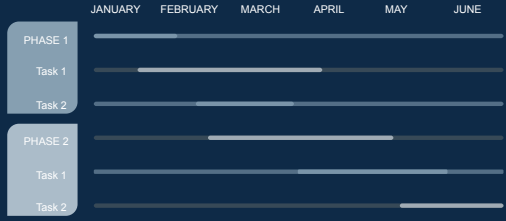
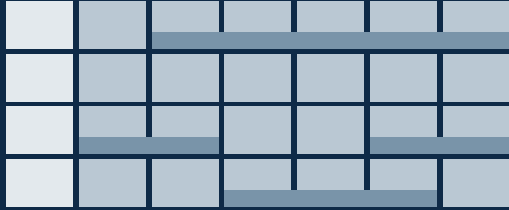
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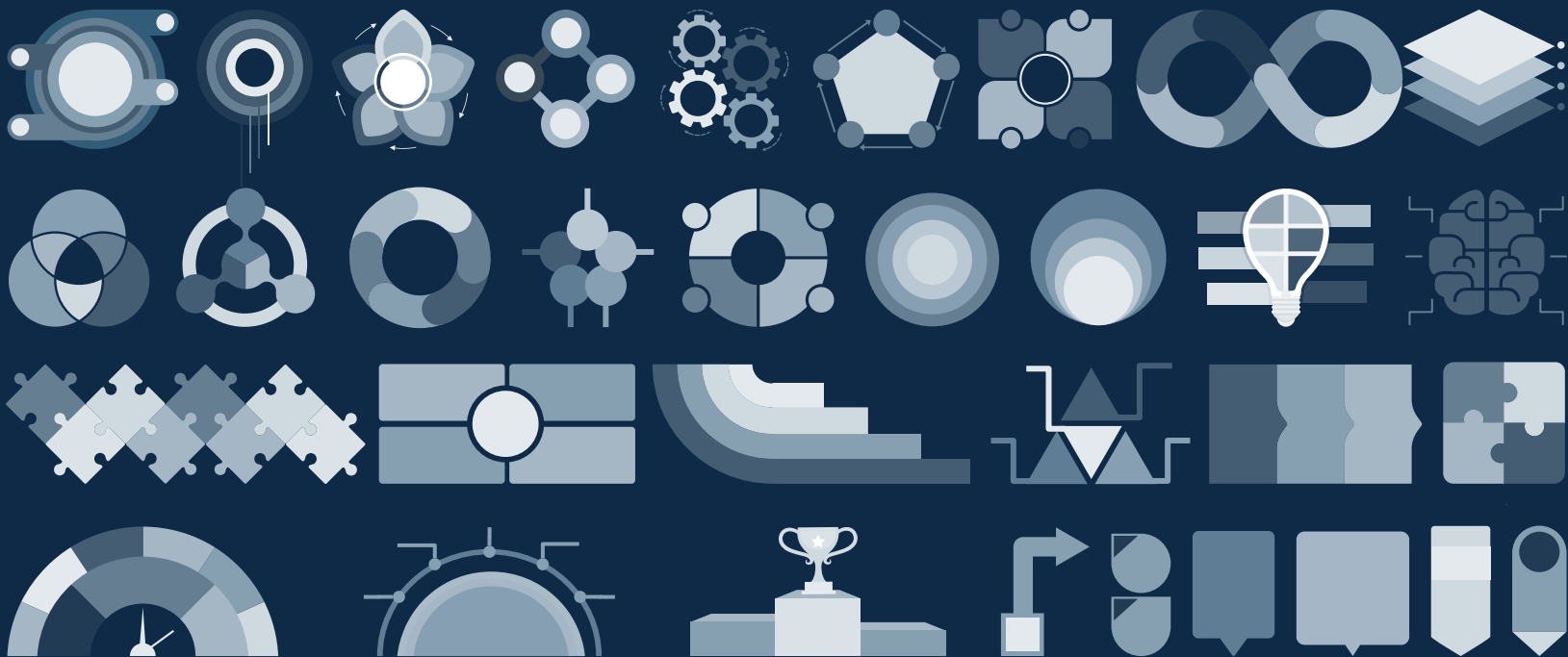
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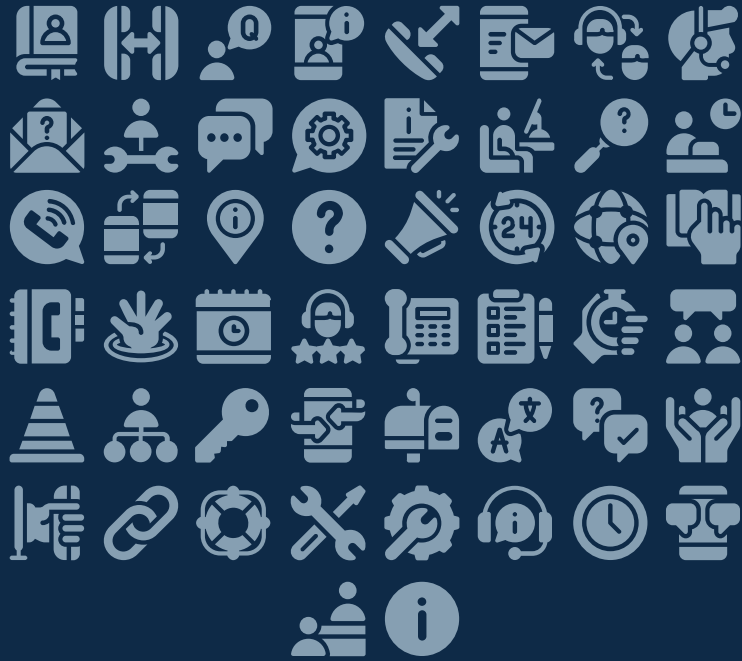
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