

Programming 'Declarant's Assistant' {

[Сервис для обработки и преобразования цифровых документов]

< Студент 4 курса факультета математики и компьютерных наук >

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}

Постановка задачи; {

```
<p class="main-task">
```

Создание прикладного программного обеспечения с графически интерфейсом, позволяющего выполнять ряд функций по обработке, преобразованию, созданию и анализу Excel файлов.

```
</p>
```

```
}
```

Основные 'задачи' {

Step 01 Разработка удобного интерфейса;

Step 02 Реализация функций создания,
обработки и заполнения инвойса;

Step 03 Реализация функций создания,
заполнения и редактирования базы
данных;

Step 04 Создание системы сохранения
данных и автоматического анализа
получаемых файлов;

}

Интерфейс; {

```
<p class="main-task__interface">
```

Для создание интерфейса приложения была
использована библиотека
языка программирования python – Tkinter.

Она включает в себя базовый набор графических
компонентов, а также позволяет вызывать различные
диалоговые окна и точно настраивать каждый
элемент.

```
</p>
```

```
}
```

Пример 'интерфейса' {

Преобразование таможенных таблиц

Выбрать базу... О программе

Выберите файл:

Путь для сохранения: C:/Users/vlad/Desktop/Тесты

Выбрана база данных: C:/Users/vlad/Desktop/Тесты/Edit files/Лист Microsoft Excel.xlsx

Обработка инвойсов | Перенос из базы | Создание инвойсов | Замена ТНВЭД | Дубликаты артикулов | Работа с базой | Подготовка для КЗ

Выбрать инвойс

Шаблон инвойса: Алмарат (без смещения) | Удалить шаблон

Номер: A | Артикул: C | Бренд: B | Описание: D | HS Code: F | Страна: G | Вес: H | Кол-во: I | Цена: J | Скидка: Нет | Сумма: K | Материал: Нет

Модель: Нет | Промежуточная сумма: Нет

Удалить столбцы:

☐ A ☐ B ☐ C ☐ D ☒ E ☐ F ☐ G ☐ H ☐ I ☐ J ☐ K

Заголовок столбца с описанием: description

☐ Есть смещение строк ☐ смещение цен ☐ смещение артикула ☐ смещение стран ☐ смещение кода

☐ Артикул находится в описании:

☐ HS Code находится в описании:

☐ Код страны находится в описании:

☐ Удалять из описания только Code / Country

☐ Ячейка с началом повторяющейся части: A | 1

Название шаблона: | Сохранить шаблон

Преобразовать

Table Of 'Contents' {

01 Theory Lesson

< You can enter a subtitle
here if you need it >

02 Features of the Topic

< You can enter a subtitle
here if you need it >

03 Practical Exercise

< You can enter a subtitle
here if you need it >

}

```
1 Introduction; {
```

```
2  
3  
4  
5 'Here you can give a brief description of the  
6 topic you want to talk about'
```

```
7 <p For example, if you want to talk about  
8 Mercury, you can say that it's the smallest  
9 planet in the entire Solar System >
```

```
10  
11  
12 </p>
```

```
13  
14 }
```

Table Of 'Contents' {

01 Theory Lesson

< You can enter a subtitle
here if you need it >

02 Features of the Topic

< You can enter a subtitle
here if you need it >

03 Practical Exercise

< You can enter a subtitle
here if you need it >

}

Contents Of 'This Template';

Here's what you'll find in this **Slidesgo** template:

- * A slide structure based on a Workshop presentation, which you can easily adapt to your needs. For more info on how to edit the template, please visit **Slidesgo School** or read our **FAQs**.
- * An assortment of graphic resources that are suitable for use in the presentation can be found in the **alternative resources slide**.
- * A **thanks slide**, which you must keep so that proper credits for our design are given.
- * A **resources slide**, where you'll find links to all the elements used in the template.
- * **Instructions for use**.
- * Final slides with:
 - * The **fonts and colors** used in the template.
 - * A **selection of illustrations**. You can also customize and animate them as you wish with the online editor. Visit **Storyset** to find more.
 - * More **infographic resources**, whose size and color can be edited.
 - * Sets of **customizable icons** of the following themes: general, business, avatar, creative process, education, help & support, medical, nature, performing arts, SEO & marketing, and teamwork.

You can delete this slide when you're done editing the presentation.

01 {

[Theory Lesson]

< You can enter a subtitle
here if you need it >

}

Concepts < /1 > {



< Mercury is the closest planet to the Sun and the smallest one in the Solar System—it's only a bit larger than the Moon >

}

Concepts < /2 > {



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

}

What Is this 'Topic About ?' {

Languages

Html  60%

< Mercury is the
smallest planet in the
entire Solar System >

Css  40%

< The Earth is the only
one that harbors life in
the Solar System >

Create a web page



Venus has a
nice name



Mars is a
cold place



Jupiter is
a gas giant

}

Features of 'the Topic' {

Step 01 Mercury is the closest planet to the Sun and the smallest one

Step 02 Saturn is a gas giant and has several rings

Step 03 The Earth is the only planet that harbors life

Step 04 Venus has a beautiful name and is the second planet from the Sun

}

Recommendations; {



Mercury

< Mercury is the closest planet to the Sun
and the smallest one in the Solar System >



Saturn

< It was named after the Roman god of wealth
and agriculture >





Jupiter


< Jupiter is a gas giant and the biggest
planet in the Solar System >


}

Examples About 'The Topic' {

 **Mercury**
< Mercury is the
closest planet to
the Sun >

 **Jupiter**
< Jupiter is a gas
giant and the
biggest planet >

 **Saturn**
< Saturn is a gas
giant and has
several rings >

 **Venus**
< Venus has a nice
name and high
temperatures >

}

Practical Exercise {

```
< Saturn is the fourth-largest object by diameter in  
the Solar System >
```

```
< /1 >      * Mercury is the smallest planet  
              * The Earth is the planet we live on  
              * Saturn is made of oxygen and helium
```

```
< /2 >      * Jupiter is a gas giant  
              * Venus has high temperatures  
              * Neptune is very far away from the Sun
```

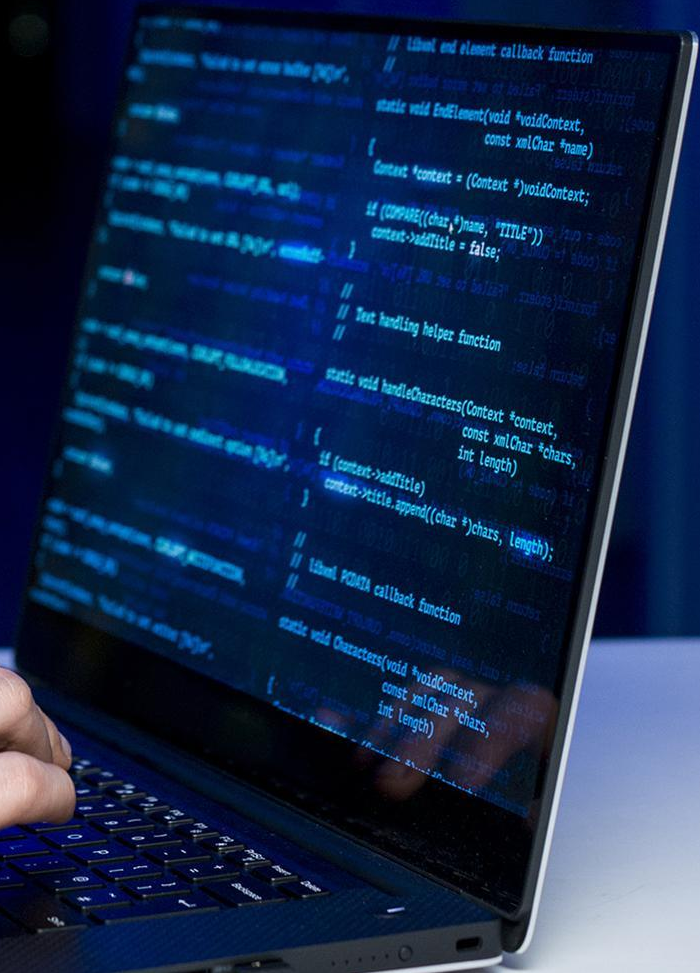
```
}
```



```
1 9h 55m 23s {
2
3    < Is Jupiter's rotation period >
4
5
6    333,000.000
7
8    < Earths fit in the Sun's mass >
9
10   386,000 km
11
12   < Distance between the Moon and the Earth >
13 }
14
```

A 'Picture' Is {
Worth a Thousand
Words

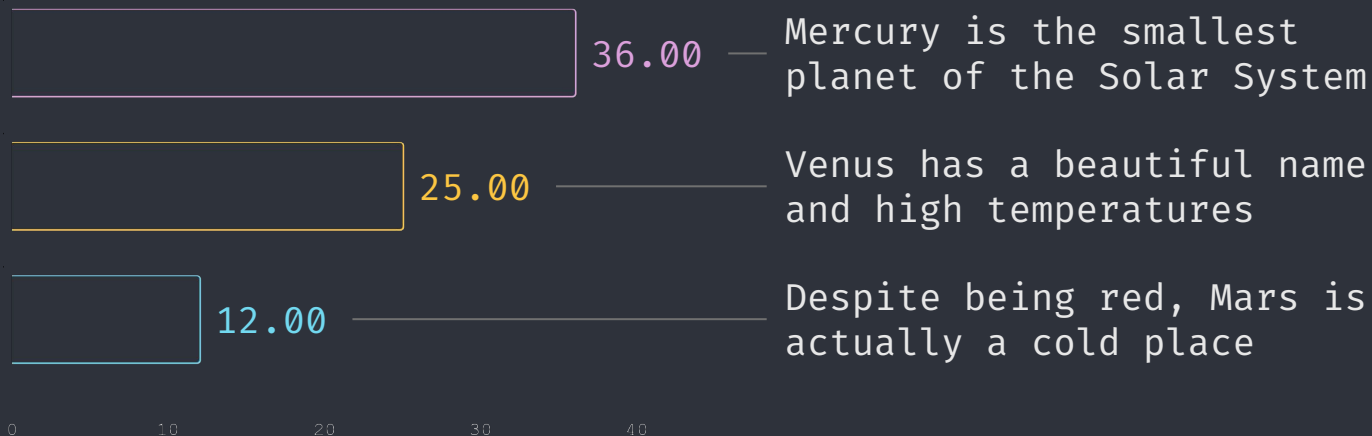
}



1
2
3
4
5
6
7
8
9
10
11
12
13
14

Awesome {
Words;
|
}

Did You Know 'This ?' {



}

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

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 >

}



```
1  
2  
3  
4 150,005,630 {  
5  
6
```

```
7  
8   < Big numbers catch your audience's attention >  
9
```

```
10 }  
11  
12  
13  
14
```

1
2
3
4
5
6
7
8
9
10
11
12
13
14

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

```
– Someone ‘Famous’
```

Review 'Concepts' {

< Mercury is the
closest planet to
the Sun and the
smallest one in the
Solar System >

● Venus ● Ceres ● Saturn



}

Planning of 'September' {

M	T	W	T	F	S	S	
		01	02	03	04	05	Mercury is the smallest planet
06	07	08	09	10	11	12	Venus has a beautiful name
13	14	15	16	17	18	19	The Earth is the third planet
20	21	22	23	24	25	26	Mars is actually a cold place
27	28	29	30				Jupiter is a gas giant

}

JavaScript For 'Beginners' {

Mercury

It is the closest
planet to the Sun

Mars

Despite being red,
Mars is a cold place

Jupiter

Jupiter is the
biggest planet

Venus

Venus is the second
planet from the Sun

Saturn

Saturn is a gas giant
and has several rings

Neptune

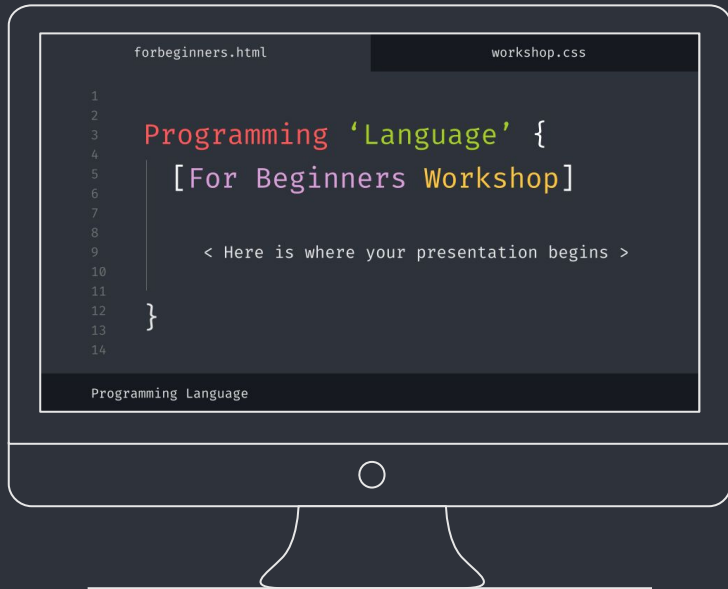
Neptune is very far
from the Earth

}

Desktop Software {

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

}



```
1 Thanks; {
```

```
2  
3 'Do you have any questions?'
```

```
4  
5 youremail@freepik.com
```

```
6 +91 620 421 838
```

```
7 yourcompany.com
```



```
10 CREDITS: This presentation template was  
11 created by Slidesgo, including icons by  
12 Flaticon, and infographics & images by Freepik
```

```
13 < Please keep this slide for attribution >
```

```
14 }
```

forbeginners.html

workshop.css

Web 'Design'



Programming Language

Alternative 'Resources' {

Here's an assortment of alternative resources
whose style fits the one of this template

Photos:

- * Portrait hacker I
- * Portrait hacker II

}

Alternative 'Resources' {

Here's an assortment of alternative resources
whose style fits the one of this template

Photos:

- * Portrait hacker I
- * Portrait hacker II

}

Resources {

Did you like the resources on this template? Get them for free at our other websites:

Photos:

- * Close up hacker
- * Medium shot woman working computer

Icons:

- * Web design

}

Instructions for use

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This presentation has been made using the following fonts:

Fira Code

(<https://fonts.google.com/specimen/Fira+Code>)

#16191f

#2e323b

#707070

#e7e7e7

ffffff

ff5858

fcc642

dba0db

72d9f0

a5cf27

Storyset

Create your Story with our illustrated concepts. Choose the style you like the most, edit its colors, pick the background and layers you want to show and bring them to life with the animator panel! It will boost your presentation. Check out [How it Works](#).



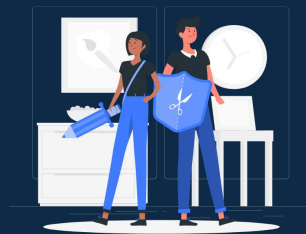
Pana



Amico



Bro



Rafiki



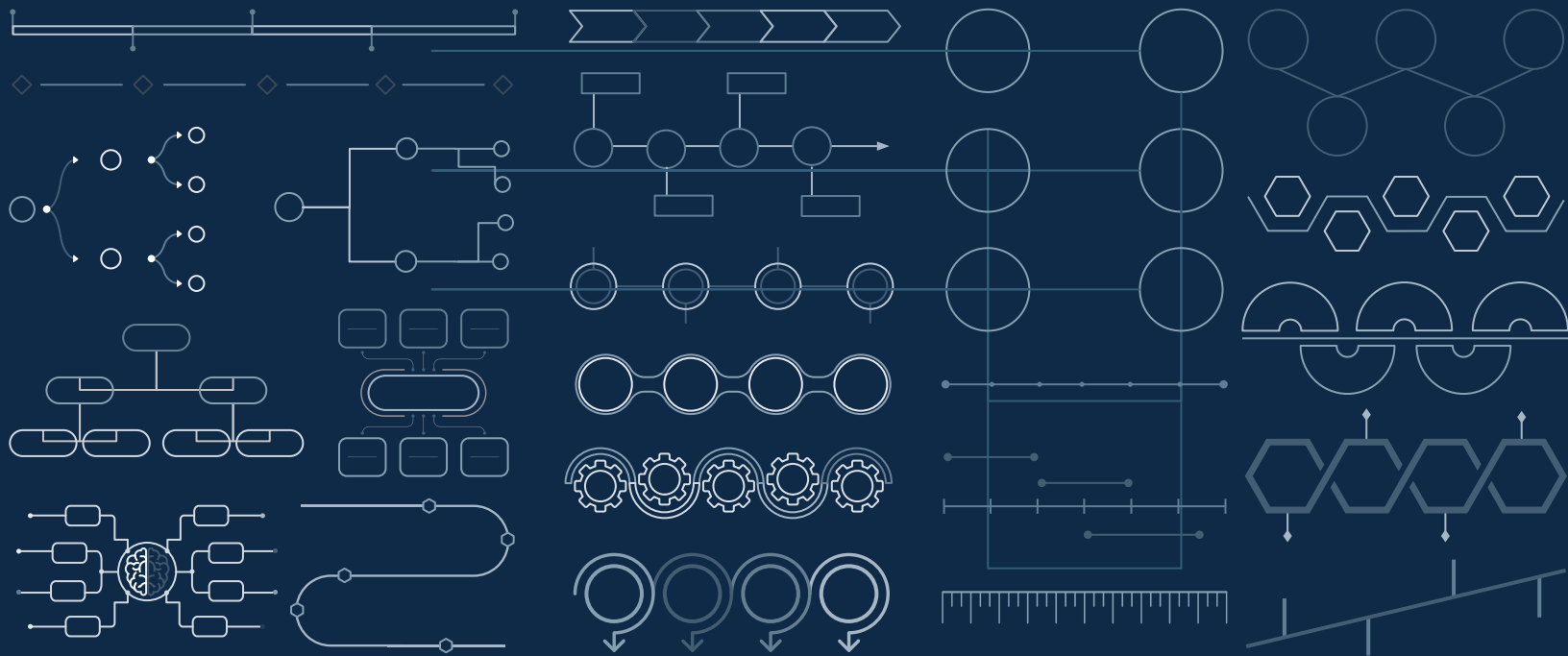
Cuate

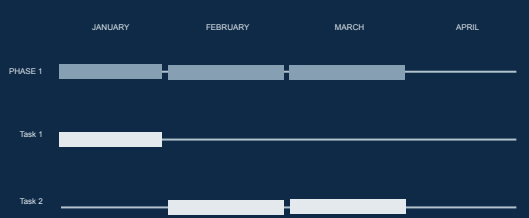
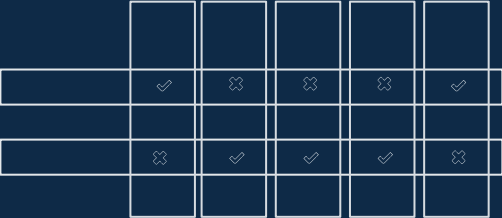
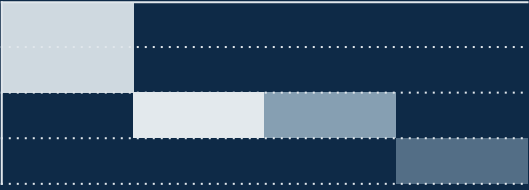
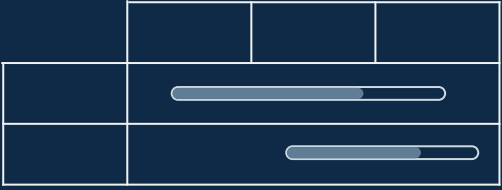
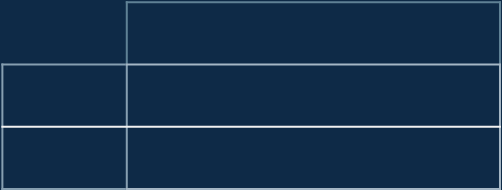
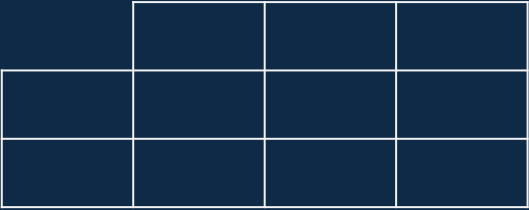
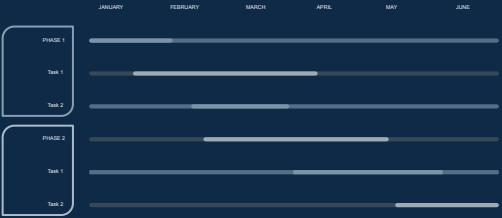
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You can easily [resize](#) these resources without losing quality. To [change the color](#), just ungroup the resource and click on the object you want to change. Then, click on the paint bucket and select the color you want. Group the resource again when you're done. You can also look for more [infographics](#) on [Slidesgo](#).

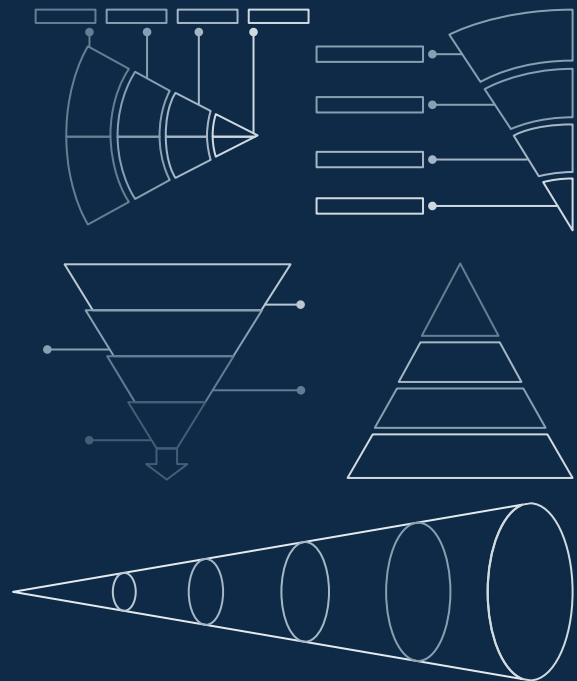
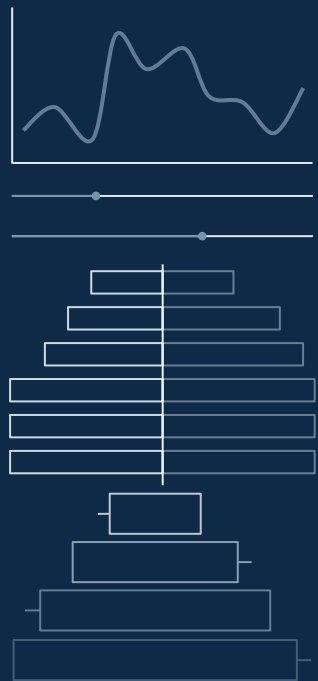
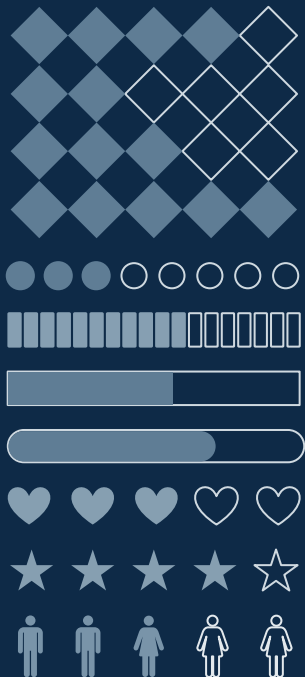
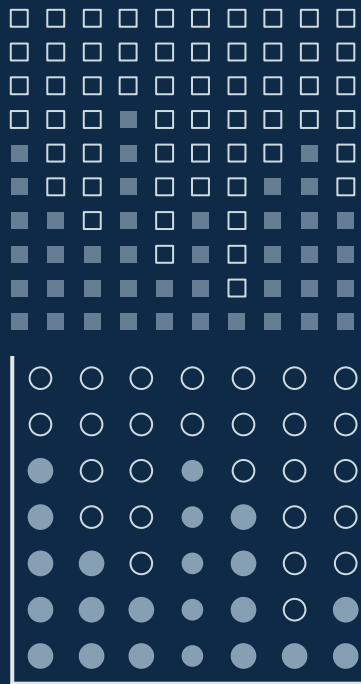












...and our sets of editable icons

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You can **change the stroke and fill color**; just select the icon and click on the **paint bucket/pen**.

In Google Slides, you can also use **Flaticon's extension**, allowing you to customize and add even more icons.



Educational Icons



Medical Icons



Business Icons



Teamwork Icons



Help & Support Icons



Avatar Icons



Creative Process Icons



Performing Arts Icons



Nature Icons



SEO & Marketing Icons



