

```
1
2 Programming 'Declarant's
3 Assistant' {
4
```

```
5 [Сервис для обработки и преобразования цифровых документов]
```

```
6
7 < Студент 4 курса факультета математики и компьютерных наук >
```

```
8
9 < Группа 4ПМ, Никитенко Владислав >
```

```
10
11 < Научный руководитель: Лобанов Андрей Григорьевич >
```

```
12 }
13
14
```

```
1  Постановка задачи; {
2
3
4
5  <p class="main-task">
6      Создание прикладного программного обеспечения
7      с графически интерфейсом, позволяющего
8      выполнять ряд функций по обработке,
9      преобразованию, созданию и анализу Excel
10     файлов.
11 </p>
12
13 }
14
```

```
1  Основные 'задачи' {
2
3  — Step 01 Разработка удобного интерфейса;
4
5
6  — Step 02 Реализация функций создания,
7              обработки и заполнения инвойса;
8
9  — Step 03 Реализация функций создания,
10             заполнения и редактирования базы
11             данных;
12 — Step 04 Создание системы сохранения
13             данных и автоматического анализа
14             получаемых файлов;
15 }
```

# 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' {

1  
2  
3  
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9  
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12  
13  
14

The screenshot shows a web application window titled "Преобразование таможенных таблиц" (Conversion of customs tables). The interface includes a file selection area at the top, a menu bar with options like "Обработка именовых" and "Перенос из базы", and a main configuration area. The configuration area features several dropdown menus for selecting parameters such as "Шаблон именовых" (Almarat), "Номер", "Артикул", "Бренд", "Описание", "HS Code", "Страна", "Вес", "Кол-во", "Цена", "Скидка", "Сумма", and "Материал". There are also checkboxes for "Удалить столбцы" (GA-GK) and "Удалить столбец с описанием" (description). At the bottom, there is a "Преобразовать" (Convert) button.

```
1 Table Of 'Contents' {
2
3
4     01 Theory Lesson
5     < You can enter a subtitle
6     here if you need it >
7
8         02 Features of the Topic
9         < You can enter a subtitle
10        here if you need it >
11
12             03 Practical Exercise
13             < You can enter a subtitle
14             here if you need it >
15 }
```

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

```
1 Table Of 'Contents' {
2
3
4     01 Theory Lesson
5     < You can enter a subtitle
6     here if you need it >
7
8         02 Features of the Topic
9         < You can enter a subtitle
10        here if you need it >
11
12             03 Practical Exercise
13             < You can enter a subtitle
14             here if you need it >
15 }
```



# 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.



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

01 {

[Theory Lesson]

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

}

```
1 Concepts < /1 > {
2
3   | [  < Mercury is the closest planet to the Sun and
4   |   the smallest one in the Solar System—it's only
5   |   a bit larger than the Moon >
6   | }
7
8
9 Concepts < /2 > {
10
11 | [  < Venus has a beautiful name and is the second
12 |   planet from the Sun. It's hot and has a
13 |   poisonous atmosphere >
14 | }
```

# 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

}

```
1 Features of 'the Topic' {
2
3   Step 01 Mercury is the closest planet to
4   the Sun and the smallest one
5
6   Step 02 Saturn is a gas giant and has
7   several rings
8
9   Step 03 The Earth is the only planet that
10  harbors life
11
12  Step 04 Venus has a beautiful name and is
13  the second planet from the Sun
14 }
```

```
1 Recommendations; {
2
3
4   [  Mercury
5     < Mercury is the closest planet to the Sun
6       and the smallest one in the Solar System >
7
8   [  Saturn
9     < It was named after the Roman god of wealth
10      and agriculture >
11
12  [  Jupiter
13    < Jupiter is a gas giant and the biggest
14      planet in the Solar System >
15 }
```

# Examples About 'The Topic' {

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



## 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 {

```
1  
2  
3 < Saturn is the fourth-largest object by diameter in  
4 the Solar System >
```

```
5  
6  
7 < /1 > * Mercury is the smallest planet  
8 * The Earth is the planet we live on  
9 * Saturn is made of oxygen and helium
```

```
10  
11 < /2 > * Jupiter is a gas giant  
12 * Venus has high temperatures  
13 * Neptune is very far away from the Sun
```

```
14 }
```



```
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

}



```
// libxml and element callback function
static void EndElement(void *voidContext,
                      const xmlChar *name)
{
    Context *context = (Context *)voidContext;

    if (COMPARE((char *)name, "TITLE"))
        context->addTitle = false;
}

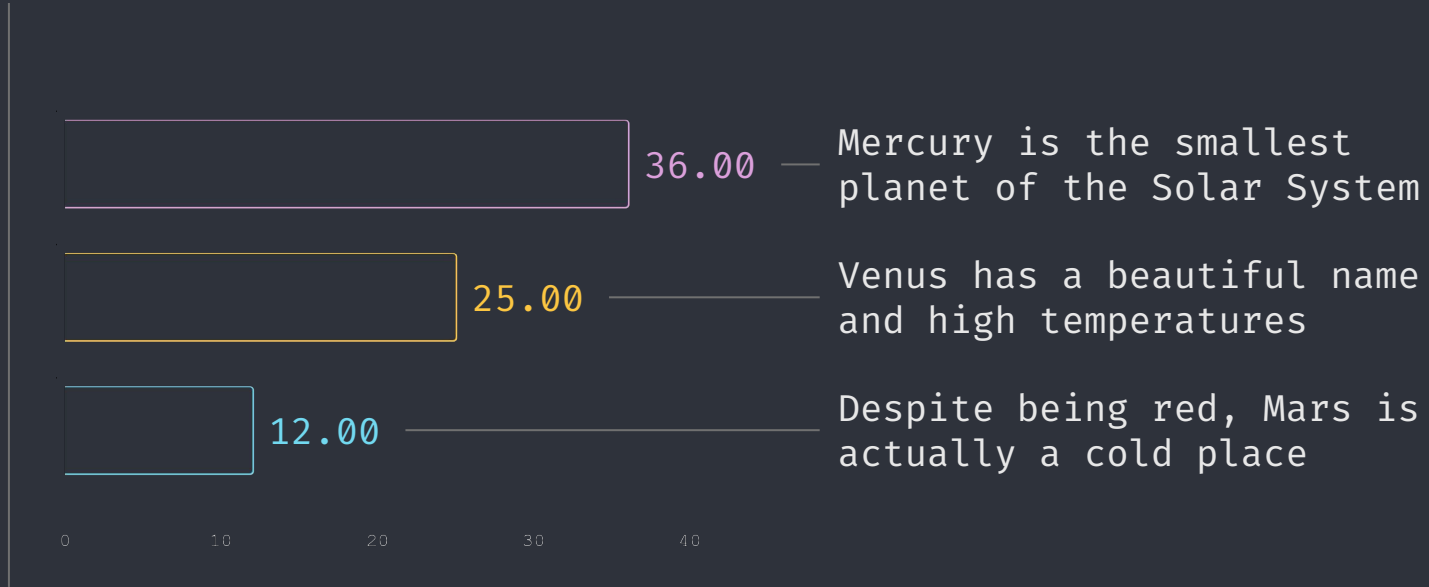
// Test handling helper function
static void handleCharacters(Context *context,
                           const xmlChar *chars,
                           int length)
{
    if (context->addTitle)
        context->title.append((char *)chars, length);
}

// libxml PCDATA callback function
static void Characters(void *voidContext,
                     const xmlChar *chars,
                     int length)
```

1  
2  
3  
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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**

1  
2  
3 A 'Picture'  
4 Always Reinforces  
5 The Concept {  
6  
7  
8

9 < Images reveal large amounts of  
10 data, so remember: use an image  
11 instead of a long text. Your  
12 audience will appreciate it >  
13  
14 }



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

150,005,630 }

< Big numbers catch your audience's attention >

}

1  
2  
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4  
5  
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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' {

```
1  
2  
3  
4  
5 < Mercury is the  
6   closest planet to  
7   the Sun and the  
8   smallest one in the  
9   Solar System >
```

10 ● Venus ● Ceres ● Saturn

```
11  
12  
13 }  
14
```





# Planning of 'September' {

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

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

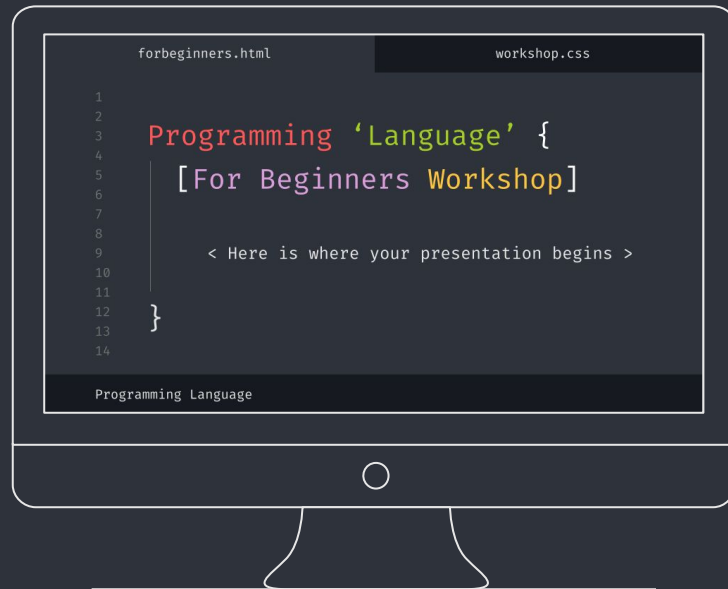
}

```
1 JavaScript For 'Beginners' {
2
3     Mercury                    Mars
4     It is the closest         Despite being red,
5     planet to the Sun        Mars is a cold place
6
7     Jupiter                    Venus
8     Jupiter is the           Venus is the second
9     biggest planet          planet from the Sun
10
11    Saturn                      Neptune
12    Saturn is a gas giant     Neptune is very far
13    and has several rings    from the Earth
14 }
```

# 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
8
9       
10
11     CREDITS: This presentation template was
12     created by Slidesgo, including icons by
13     Flaticon, and infographics & images by Freepik
14
15     < Please keep this slide for attribution >
16 }
```

# Web 'Design'

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



```
1 Alternative 'Resources' {
2
3     Here's an assortment of alternative resources
4     whose style fits the one of this template
5
6     Photos:
7
8     * Portrait hacker I
9     * Portrait hacker II
10
11
12
13 }
14
```

```
1 Alternative 'Resources' {
2
3     Here's an assortment of alternative resources
4     whose style fits the one of this template
5
6     Photos:
7
8     * Portrait hacker I
9     * Portrait hacker II
10
11
12
13 }
14
```

```
1 Resources {
2
3     Did you like the resources on this template? Get
4     them for free at our other websites:
5
6     Photos:
7
8     * Close up hacker
9     * Medium shot woman working computer
10
11    Icons:
12
13    * Web design
14 }
```



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# Fonts & colors used

This presentation has been made using the following fonts:

## Fira Code

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

#16191f

#2e323b

#707070

#e7e7e7

#####

#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



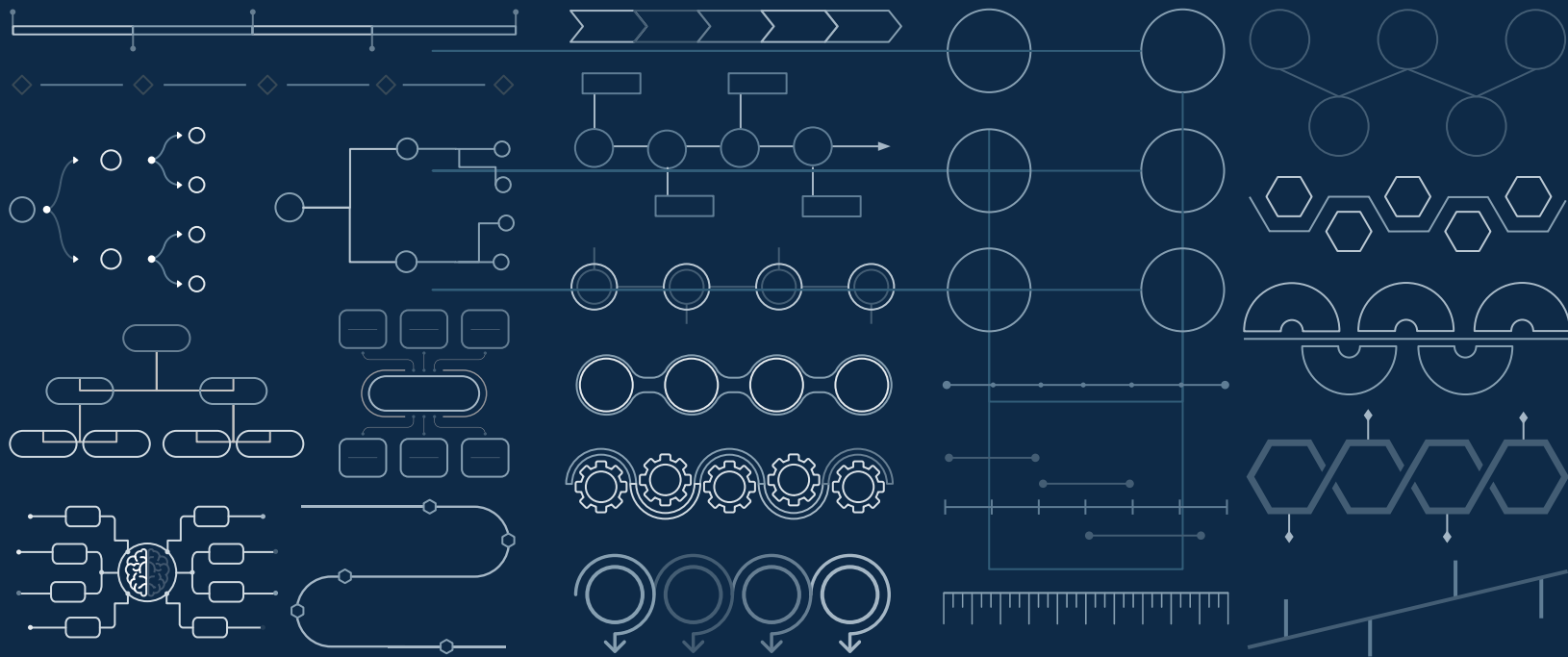
Rafiki

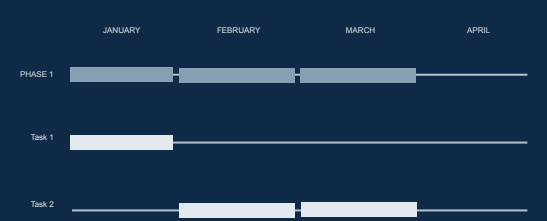
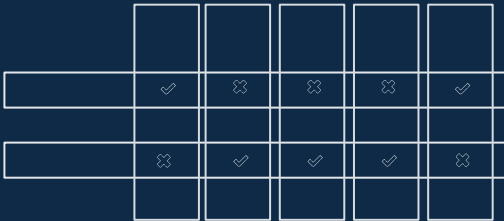
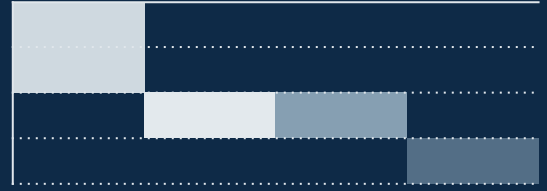
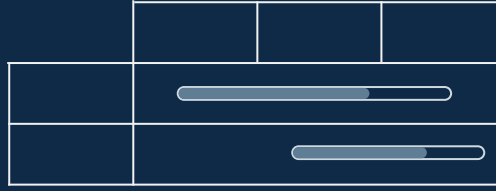
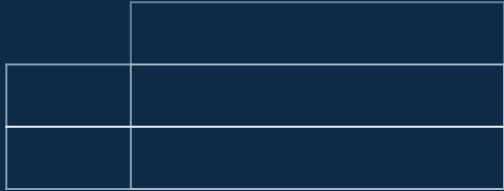
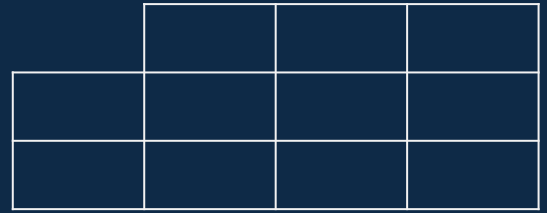
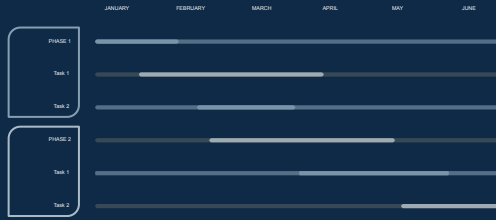
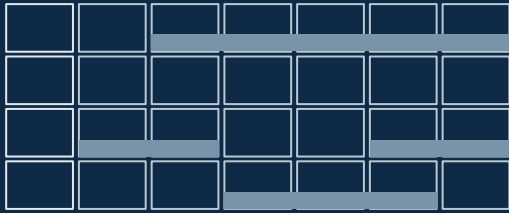


Cuate

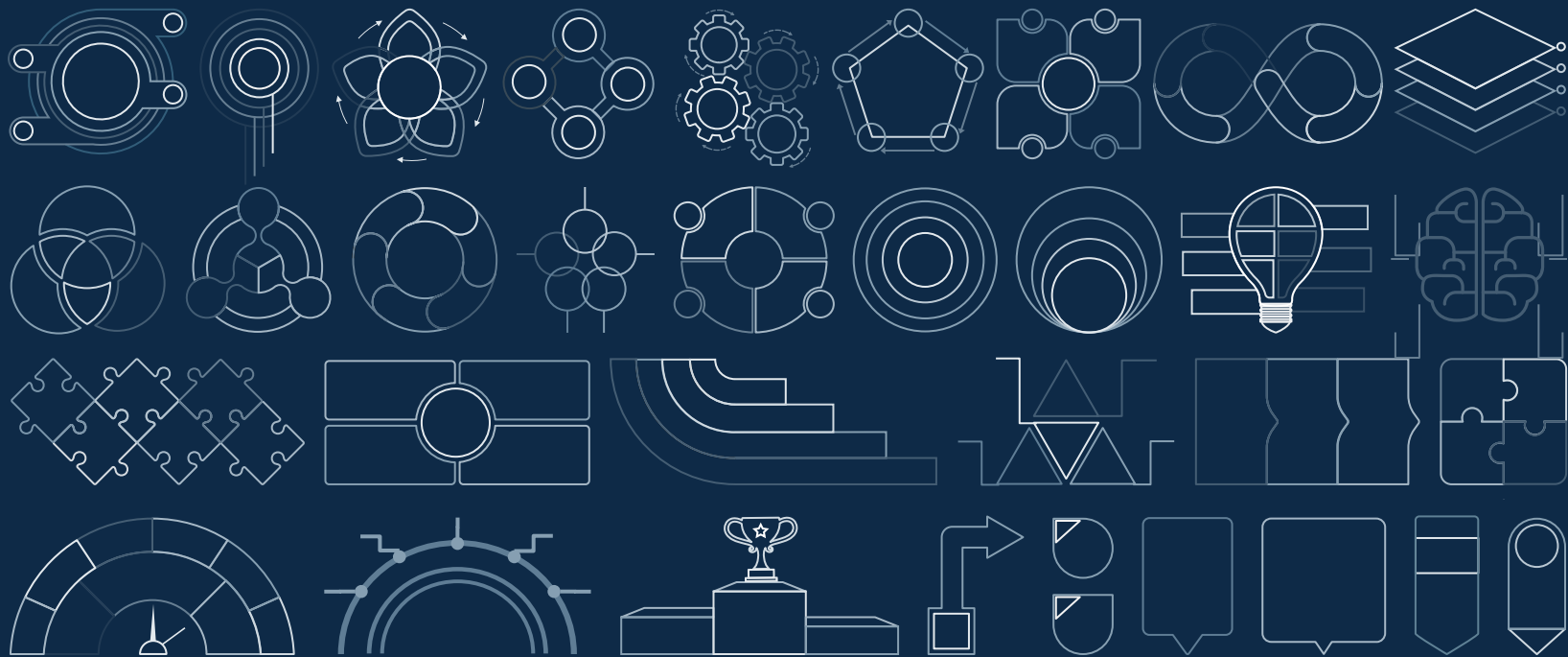


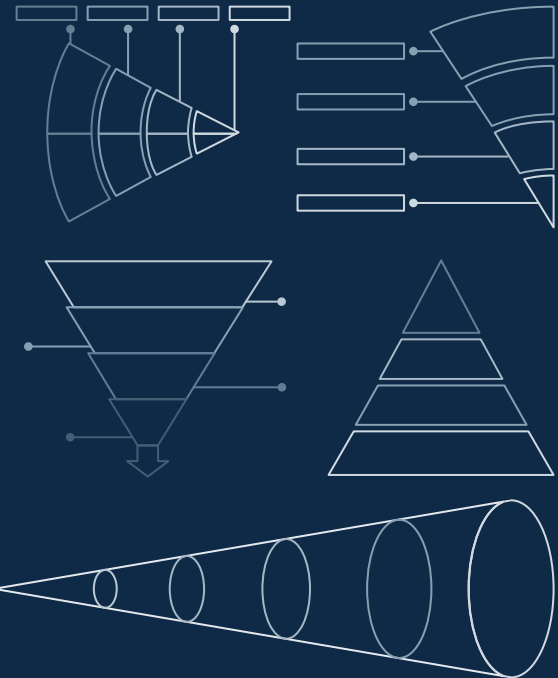
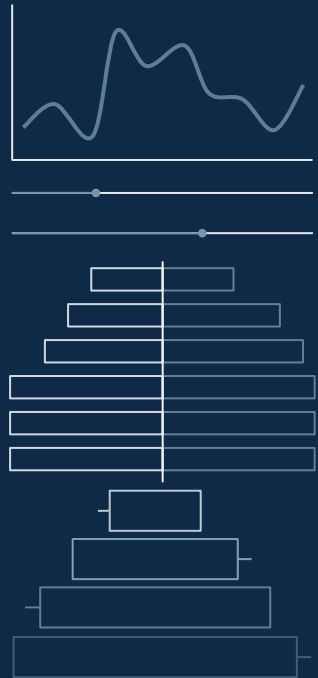
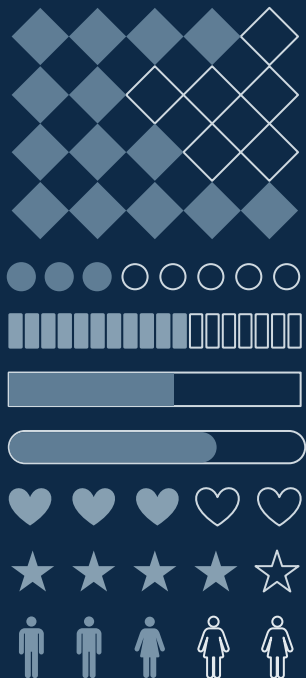
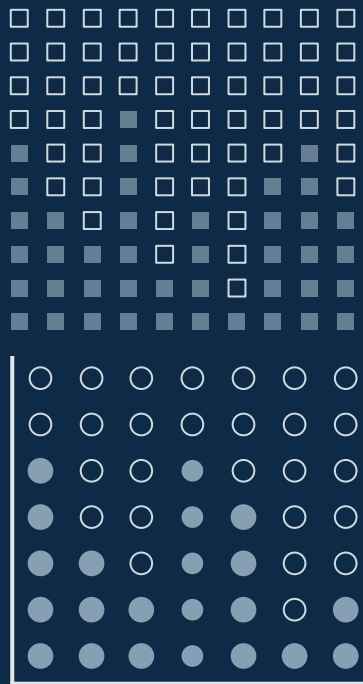












# ...and our sets of editable icons

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









# Creative Process Icons



# Performing Arts Icons



# Nature Icons





# SEO & Marketing Icons



