



Integrantes:

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Materia:

Taller de Desarrollo Móvil Para Windows

Tema:

Práctica 03

Grupo:

401

Maestro:

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MainPage.xaml

```
<?xml version="1.0" encoding="utf-8" ?>
<ContentPage xmlns="http://schemas.microsoft.com/dotnet/2021/maui"
    xmlns:x="http://schemas.microsoft.com/winfx/2009/xaml"
    x:Class="TDMPW_2P_PR03.MainPage">

    <Grid
        x:Name="background">

        <Grid.Background>
            <LinearGradientBrush
                EndPoint="1,1">
                <GradientStopCollection>
                    <GradientStop
                        Offset="0.0"
                        Color="#4b0082"
                    />
                    <GradientStop
                        Offset="0.20"
                        Color="#0000ff"
                    />
                    <GradientStop
                        Offset="0.40"
                        Color="#00ff00"
                    />
                    <GradientStop
                        Offset="0.60"
                        Color="#ffff00"
                    />
                    <GradientStop
                        Offset="0.80"
                        Color="#ff7f00"
                    />
                    <GradientStop
                        Offset="1.0"
                        Color="#ff0000"
                    />
                </GradientStopCollection>
            </LinearGradientBrush>
        </Grid.Background>

        <Grid.RowDefinitions>
            <RowDefinition Height="2*" />
            <RowDefinition Height="6*" />
            <RowDefinition Height="2*" />
            <RowDefinition Height="2*" />
            <RowDefinition Height="*" />
        </Grid.RowDefinitions>
    </Grid>
</ContentPage>
```

```

<RowDefinition Height="*" />
<RowDefinition Height="0.5*" />
</Grid.RowDefinitions>
<Grid.ColumnDefinitions>
    <ColumnDefinition Width="*" />
    <ColumnDefinition Width="*" />
    <ColumnDefinition Width="*" />
</Grid.ColumnDefinitions>

<Label
    Grid.Row="0"
    Grid.Column="0"
    Grid.ColumnSpan="3"
    Text="Napoleon Bonaparte"
    FontSize="50"
    TextColor="white"
    HorizontalOptions="Center"
    VerticalOptions="Center"
    FontFamily="Avocado"
    />

<Frame
    Grid.Row="1"
    Grid.Column="0"
    Grid.ColumnSpan="3"
    HorizontalOptions="Center"
    Margin="50,0,50,0"
    CornerRadius="50"
    MaximumWidthRequest="1200"
    WidthRequest="600"
    MaximumHeightRequest="720"
    Padding="0"
    IsClippedToBounds="True">
    <Image
        x:Name="imagen"
        Aspect="AspectFill"
        />
</Frame>

<Label
    x:Name="frase"
    Grid.Row="2"
    Grid.Column="0"
    Grid.ColumnSpan="3"
    Text="..."
    HorizontalOptions="Center"
    VerticalOptions="Center"
    FontSize="25"

```

```
        TextColor="White"
        FontFamily="Avocado"
        Margin="50,0,50,0"
    />

<Button
    x:Name="btnCambiar"
    Grid.Row="3"
    Grid.Column="0"
    Grid.ColumnSpan="3"
    Text="Cambiar"
    FontSize="35"
    TextColor="White"
    FontFamily="Avocado"
    BackgroundColor="Green"
    HorizontalOptions="Fill"
    CornerRadius="35"
    Margin="50,0,50,0"
    Clicked="btnCambiar_Clicked"
    MaximumWidthRequest="1280"
/>

<Label
    x:Name="lblColor1"
    Grid.Row="4"
    Grid.Column="0"
    Text="#4b0082"
    TextColor="White"
    FontSize="25"
    HorizontalOptions="Center"
    VerticalOptions="Center"
/>

<Label
    x:Name="lblColor2"
    Grid.Row="4"
    Grid.Column="1"
    Text="#0000ff"
    TextColor="White"
    FontSize="25"
    HorizontalOptions="Center"
    VerticalOptions="Center"
/>

<Label
    x:Name="lblColor3"
    Grid.Row="4"
    Grid.Column="2"
```

```
Text="#00ff00"
TextColor="White"
FontSize="25"
HorizontalOptions="Center"
VerticalOptions="Center"
/>

<Label
x:Name="lblColor4"
Grid.Row="5"
Grid.Column="0"
Text="#ffff00"
TextColor="white"
FontSize="25"
HorizontalOptions="Center"
VerticalOptions="Center"
/>

<Label
x:Name="lblColor5"
Grid.Row="5"
Grid.Column="1"
Text="#ff7f00"
TextColor="white"
FontSize="25"
HorizontalOptions="Center"
VerticalOptions="Center"
/>

<Label
x:Name="lblColor6"
Grid.Row="5"
Grid.Column="2"
Text="#ff0000"
TextColor="White"
FontSize="25"
HorizontalOptions="Center"
VerticalOptions="Center"
/>

</Grid>

</ContentPage>
```

MainPage.xaml.cs

```
using Microsoft.Maui.Controls;

namespace TDMPW_2P_PR03;

public partial class MainPage : ContentPage
{
    List<string> frases = new List<string>();
    List<string> imagenes = new List<string>
    {
        "napoleon1.png",
        "napoleon2.png",
        "napoleon3.png",
        "napoleon4.png",
        "napoleon5.png"
    };

    public MainPage()
    {
        InitializeComponent();
    }

    protected override async void OnAppearing()
    {
        base.OnAppearing();
        await LoadMauiAsset();
    }

    async Task LoadMauiAsset()
    {
        using var stream = await FileSystem.OpenAppPackageFileAsync("frases.txt");
        using var reader = new StreamReader(stream);

        // var contents = reader.ReadToEnd();

        while (reader.Peek() != -1)
        {
            frases.Add(reader.ReadLine());
        }
    }

    public static string ColorToHex(System.Drawing.Color color)
    {
        return $"#{color.R:X2}{color.G:X2}{color.B:X2}";
    }

    Random random = new Random();
```

```

void btnCambiar_Clicked(System.Object sender, System.EventArgs e)
{
    var startColor = System.Drawing.Color.FromArgb(
        random.Next(0, 256),
        random.Next(0, 256),
        random.Next(0, 256)
    );
    var endColor = System.Drawing.Color.FromArgb(
        random.Next(0, 256),
        random.Next(0, 256),
        random.Next(0, 256)
    );

    var colors = ColorUtility.ColorControls.GetColorGradient(
        startColor,
        endColor,
        6);

    float stopOffset = 0.0f;

    var stops = new GradientStopCollection();

    foreach (var c in colors)
    {
        stops.Add(new GradientStop(Color.FromArgb(c.Name), stopOffset));
        stopOffset += .2f;
    }

    var gradient = new LinearGradientBrush(
        stops,
        new Point(0, 0),
        new Point(1, 1)
    );

    background.Background = gradient;
    int index = random.Next(0, frases.Count);
    frase.Text = frases[index];

    int indexImage = random.Next(imagenes.Count);
    FileImageSource newSource = new FileImageSource
    {
        File = imagenes[indexImage]
    };
    imagen.Source = newSource;

    lblColor1.Text = ColorToHex(colors[0]);
}

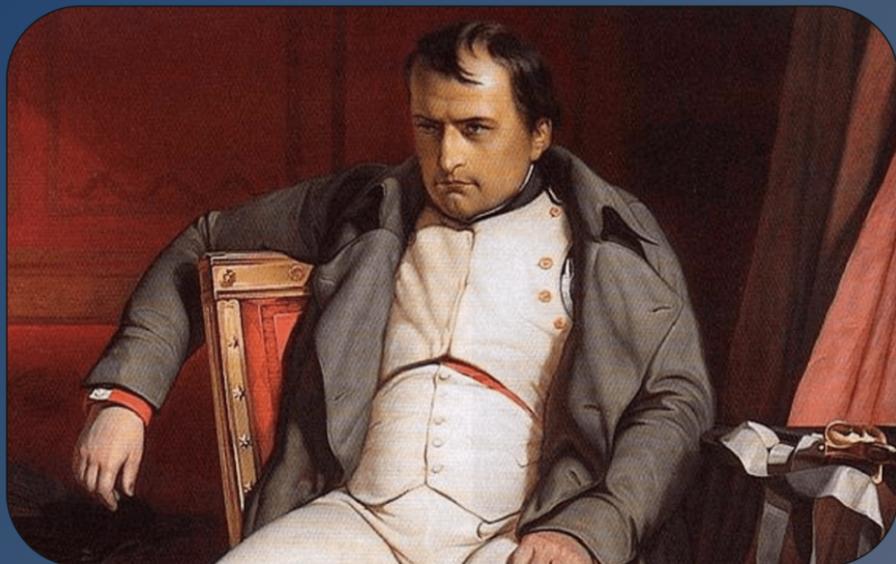
```

```
lblColor2.Text = ColorToHex(colors[1]);
lblColor3.Text = ColorToHex(colors[2]);
lblColor4.Text = ColorToHex(colors[3]);
lblColor5.Text = ColorToHex(colors[4]);
lblColor6.Text = ColorToHex(colors[5]);
}

}
```



Napoleon Bonaparte



"There is nothing we can do." - Napoleon Bonaparte

Cambiar

#09406F

#1E4A73

#325577

#475F7B

#5B6A7F

#707483



Napoleon Bonaparte



**"Action is the foundational key to all success." -
Pablo Picasso**

Cambiar

#D41E47

#CA1E47

#C02647

#B62F47

#AC3747

#A23F47



Napoleon Bonaparte



"The only way to achieve the impossible is to believe it is possible." - Charles Kingsleigh

Cambiar

#6F4F71

#6B496A

#664362

#623D5B

#5D3753

#59314C



Napoleon Bonaparte



"Your time is limited, don't waste it living someone else's life." - Steve Jobs

Cambiar

#915DB1

#847D8F

#769C6D

#69BC4B

#5BDB29

#4EFB07



Napoleon Bonaparte



"The only way to achieve the impossible is to believe it is possible." - Charles Kingsleigh

Cambiar

#1431A0

#1F3AA9

#2A43B2

#354DBA

#4056C3

#4B5FCC