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E-Portfolio Instructions Page

Preamble

In this document I will explain what the two programms in the repository do and also talk about the code in detail. How to setup SFML you can check out the slides, where I have given instructions on how to get started with it.

Empty.sln

This programm was created to demonstrate how to create a simple window with SFML and render a Circle on it.

Code Explanation

Just as in every default C++ program we gonna step into a main-routine. The first thing we want to do is to create a Window itself:

```
sf::RenderWindow win(sf::VideoMode(500, 500), "SFML Portfolio");
// It has a size of 500x500, with the title 'SFML Portfolio'
```

After that we have to create our Circle Shape we want to render:

```
// Creating the object itself
sf::CircleShape circle;
// Setting radius to 15pixels
circle.setRadius(15);
// Setting FillColor
circle.setFillColor(sf::Color::Cyan);
// Changing origin to center
circle.setOrigin(circle.getRadius(), circle.getRadius());
// Setting position on windows Center
circle.setPosition(sf::Vector2f(win.getSize()) / 2.0f);
```

After we have created everyting we need, we can enter our main-loop (In games it's called the game loop) and handle the rendering of objects and the events:

```
while (win.isOpen()) // Stay in the loop while the window is open
{
    sf::Event ev; // Create an Event
    while (win.pollEvent(ev)) // Check whether an Event happens on our
window
    {
        if (ev.type == sf::Event::Closed) // Get the Type, if it's the
"Closed" Event close the window
```

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ml_BouncingBall.sln

This is the solution for the bouncing ball exercise I gave in the presentation. The code is pretty well commented, so I wont explain it any further.