

Oefening 3.6

```
public partial class MainWindow : Window
{
    public MainWindow()
    {
        InitializeComponent();
    }

    private void DrawLine(SolidColorBrush brush, double thickness,
        double x1, double y1, double x2, double y2)
    {
        Line line = new Line();
        line.Stroke = brush;
        line.StrokeThickness = thickness;
        line.X1 = x1; line.Y1 = y1;
        line.X2 = x2; line.Y2 = y2;
        paperCanvas.Children.Add(line);
    }

    private void DrawEllipse(SolidColorBrush brush, double thickness, bool filled,
        double x, double y, double width, double height)
    {
        Ellipse ellipse = new Ellipse();
        ellipse.Width = width;
        ellipse.Height = height;
        ellipse.Margin = new Thickness(x, y, 0, 0);
        ellipse.Stroke = brush;
        if (filled)
            ellipse.Fill = brush;
        paperCanvas.Children.Add(ellipse);
    }

    private void drawButton_Click(object sender, RoutedEventArgs e)
    {
        SolidColorBrush brush = new SolidColorBrush(Colors.Black);

        //teken gezicht
        DrawEllipse(brush, 3, false, 40, 40, 60, 80);
        //teken linkeroog
        DrawEllipse(brush, 1, false, 55, 60, 10, 14);
        //teken rechteroog
        DrawEllipse(brush, 1, false, 75, 60, 10, 14);
        //teken pupillen
        DrawEllipse(brush, 1, true, 59, 62, 4, 8);
        DrawEllipse(brush, 1, true, 79, 62, 4, 8);
        //teken neus
        DrawEllipse(brush, 1, false, 67, 75, 3, 10);
        //teken mond
        DrawEllipse(brush, 1, false, 60, 90, 20, 7);
        //teken haar
        DrawLine(brush, 3, 53, 46, 45, 19);
        DrawLine(brush, 3, 68, 40, 68, 6);
        DrawLine(brush, 3, 83, 46, 92, 19);
    }
}
```

```
<Window x:Class="Oef3_6_Gezicht.MainWindow"
        xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
        xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
        Title="Oef 3.6 Gezicht" Height="300" Width="400">
    <Grid>
        <Button Content="Draw" HorizontalAlignment="Left" Margin="12,27,0,0"
                VerticalAlignment="Top" Width="75"
                Name="drawButton" Click="drawButton_Click"/>
        <Canvas HorizontalAlignment="Left" Height="200" Width="260"
                Margin="105,27,0,0" VerticalAlignment="Top"
                Name="paperCanvas" Background="LightGray">
            </Canvas>
        </Grid>
    </Window>
```