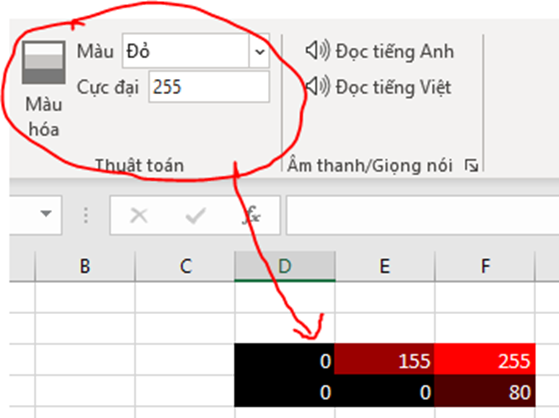
* 03/10/2020
* About: Cells colorization
* User chooses a range of cells, with selected color and saturation.
* User clicks on “Colorize”.
* The chosen cells will be colorized with corresponding color and saturation.



* Detail:
* In group Algorithm (Thuật toán) on Add-ins tab, there are a button Colorize (Màu hóa), drop down ColorRGB (Màu), edit box editSaturationPeak (Cực đại) as the figure:

Graphical user interface, application

Description automatically generated

* In MyRibon.Designer.cs, I used click event handler to call the method buttonColorize\_Click in MyRibon.cs with arguments color and saturation:

this.buttonColorize.Click += (sender,e) => this.buttonColorize\_Click(dropDownColorRGB.SelectedItem.OfficeImageId,editSaturationPeak.Text);

* In method buttonColorize\_Click in MyRibon.cs, I got selected cells:

//get selected cells

Range currentRange = (Range)Globals.ThisAddIn.Application.Selection as

Microsoft.Office.Interop.Excel.Range;

if (currentRange == null) return;

* I checked if the saturation value is valid:

int saturationInt; //saturation value in integer

bool isNumeric = int.TryParse(saturation,out saturationInt); //boolean to check if saturation is a valid number

if (isNumeric) //check if the saturation is a number

if (saturationInt >= 0 && saturationInt <= 255) //check if the saturation value is in range 0 to 255

* If valid, I checked the color to colorize and assigned the saturation value to the cells:

switch (color) // color to display with saturation

{

case "AppointmentColor1": currentRange.Interior.Color = Color.FromArgb(saturationInt, 0, 0); break; //red

case "AppointmentColor2": currentRange.Interior.Color = Color.FromArgb(0, 0, saturationInt); break; //green

case "AppointmentColor3": currentRange.Interior.Color = Color.FromArgb(0, saturationInt, 0); break; //blue

default: break;

}

currentRange.Value = saturationInt; // cell value = saturation value

Example:

Graphical user interface, application, table, Excel

Description automatically generated

* If invalid, the error messages will be displayed:

//saturation is not in range 0 to 255

MessageBox.Show("Please input a number between 0 and 255 at saturation box", "ERROR", MessageBoxButtons.OK, MessageBoxIcon.Error);

//saturation is not a valid number

MessageBox.Show("Invalid type, please input a number at saturation box", "ERROR", MessageBoxButtons.OK, MessageBoxIcon.Error);

Example:

Table

Description automatically generated

Table

Description automatically generated