

# Converting Colors

**R<sub>Y</sub>B(46, 43, 112)**

Have a look what the booklet for  
RYB(46, 43, 112) contains.

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# Color

**R<sub>Y</sub>B(46, 43, 112)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	2E2B70
RGB	46, 43, 112
RGB Percent	18%, 17%, 44%
CMY	0.8196, 0.8314, 0.5608
CMYK	0.59, 0.62, 0.00, 0.56
HSL	243°, 45%, 30%
HSV	243°, 62%, 44%
XYZ	4.9152, 3.4784, 15.7416
YIQ	51.7630, -20.3610, 22.0950

# Conversions

## Conversions Part 2

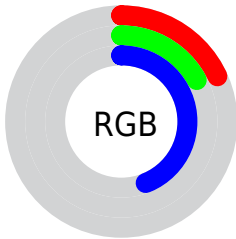
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	46, 43, 112
Decimal	3025776
CIE Lab	21.87, 23.07, -39.68
CIE LCh	22, 45.898, 300.168
Yxy	3.4784, 0.2037, 0.1441
Android (android.graphics.Color)	4281215856 (0xFF2E2B70)
YUV	51.7630, 29.6968, -5.0542
Hunter-Lab	18.6506, 14.4037, -36.9869

# Details

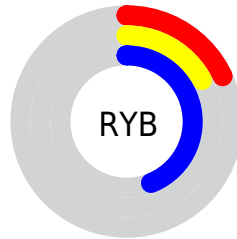
The RYB color **46, 43, 112** is a dark color, and the websafe version is hex **333366**. A complement of this color would be **43, 112, 46**, and the grayscale version is **51, 51, 51**.

A 20% lighter version of the original color is **99, 89, 164**, and **0, 0, 63** is the 20% darker color. If you saturate the color by 10%, you get **35, 32, 112**, and if you desaturate by 10%, it is **57, 54, 112**.

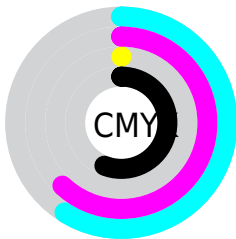
# Distribution



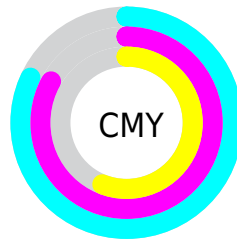
- Red (18%)
- Green (17%)
- Blue (44%)



- Red (18%)
- Yellow (17%)
- Blue (44%)



- Cyan (59%)
- Magenta (62%)
- Yellow (0%)
- Black (56%)



- Cyan (82%)
- Magenta (83%)
- Yellow (56%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 46, 43, 112 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the RYB color 46, 43, 112 by changing the saturation by 10% instead.





46, 43, 112



46, 43, 112

255, 255, 255



16, 22, 87



99, 89, 164



0, 0, 63



125, 113, 192



0, 3, 41



152, 139, 220



0, 1, 18



180, 165, 249



0, 0, 0



208, 192, 255



237, 220, 255



255, 249, 255



46, 43, 112



46, 43, 112

■ 35, 32, 112

■ 57, 54, 112

■ 25, 21, 112

■ 67, 65, 112

■ 14, 9, 112

■ 78, 77, 112

■ 5, 0, 112

■ 89, 88, 112

■ 100, 99, 112

■ 110, 110, 112

■ 112, 121, 112

■ 112, 133, 113

■ 112, 144, 114

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



0, 39, 121



46, 43, 112



92, 21, 87

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



46, 43, 112



91, 60, 0



0, 37, 66

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



46, 43, 112



43, 112, 46

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



0, 52, 64



46, 43, 112



18, 65, 0

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



46, 43, 112



107, 13, 21



0, 60, 28



0, 37, 86

# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



46, 43, 112



106, 2, 65



0, 60, 28



0, 41, 66



# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



46, 43, 112



120, 119, 145



43, 77, 112



58, 58, 74



201, 201, 201



74, 74, 74



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



46, 43, 112



42, 38, 145



80, 43, 112



51, 50, 56



5, 0, 120



11, 0, 247



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



112, 43, 109



145, 38, 141



43, 112, 80



56, 50, 56



120, 0, 115



247, 0, 237



# Previews

## White Background



This preview shows how the RYB color 46, 43, 112 looks on a white background.

## Color Contrast Check

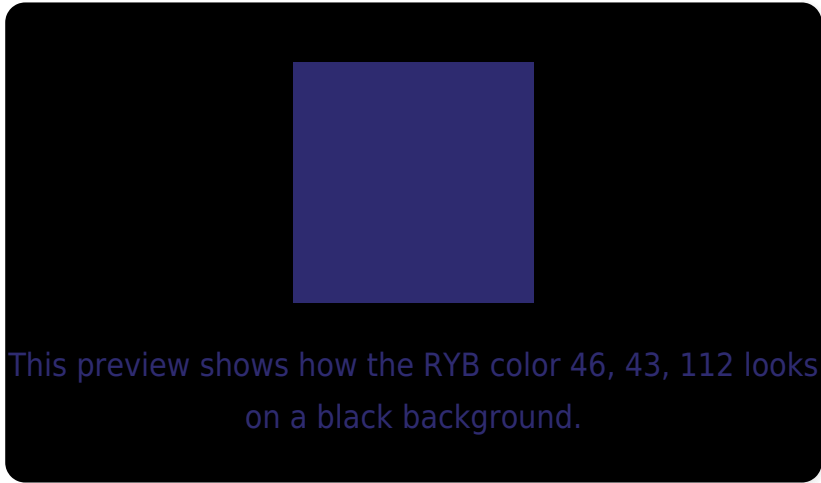
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

# Black Background



## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).



## **RYB 46, 43, 112 Background**



This preview shows how black text looks on a background with the RYB color 46, 43, 112.



This preview shows how white text looks on a background with the RYB color 46, 43, 112.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



**Original Color**  
46, 43, 112

**Protanopia**  
0, 35, 107

**Deuteranopia**  
0, 34, 93



# Tritanopia

24, 42, 62

# Trichromacy



**Original Color**

46, 43, 112

**Protanomaly**

17, 40, 109

**Deuteranomaly**

17, 41, 100

**Tritanomaly**

32, 46, 80

# Monochromacy



**Original Color**

46, 43, 112

**Achromatopsia**

52, 52, 52

**Achromatomaly**

50, 49, 74

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 46, 43, 112 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color rgb(46, 43, 112) looks like.

```
.text, #text, p{  
    color:rgb(46, 43, 112)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(46, 43, 112) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(46, 43, 112) }
```

## Border

The CSS property to change the border of an element to RYB 46, 43, 112 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(46, 43, 112) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(46, 43, 112) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(46, 43, 112)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(46, 43, 112); -webkit-box-  
shadow:4px 4px 4px 4px rgb(46, 43, 112);  
box-shadow:4px 4px 4px 4px rgb(46, 43,  
112) }
```

# Background

The CSS property to change the background color of an element to RYB 46, 43, 112 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(46, 43, 112) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(46, 43,  
112) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).



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