

Converting Colors

`RYB(45, 78, 161)`

Have a look what the booklet for
RYB(45, 78, 161) contains.

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Color

R_YB(45, 78, 161)

Conversions

Conversions Part 1

Format	Color
Hex	2D5BA1
RGB	45, 91, 161
RGB Percent	18%, 36%, 63%
CMY	0.8235, 0.6427, 0.3686
CMYK	0.72, 0.43, 0.00, 0.37
HSL	216°, 56%, 40%
HSV	216°, 72%, 63%
XYZ	11.2666, 10.6339, 35.1769
YIQ	85.2260, -49.8860, 12.0180

Conversions

Conversions Part 2

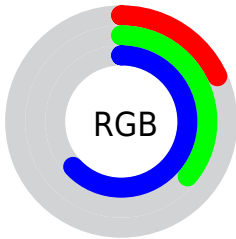
Format	Color
R _Y B	45, 78, 161
Decimal	2972577
CIE Lab	38.96, 8.73, -42.48
CIE LCh	39, 43.369, 281.615
Yxy	10.6339, 0.1974, 0.1863
Android (android.graphics.Color)	4281162657 (0xFF2D5BA1)
YUV	85.2260, 37.3566, -35.2782
Hunter-Lab	32.6096, 4.6047, -41.1311

Details

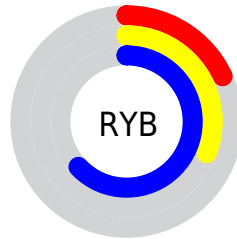
The RYB color **45, 78, 161** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **121, 161, 45**, and the grayscale version is **85, 85, 85**.

A 20% lighter version of the original color is **105, 132, 216**, and **0, 32, 109** is the 20% darker color. If you saturate the color by 10%, you get **29, 66, 161**, and if you desaturate by 10%, it is **61, 90, 161**.

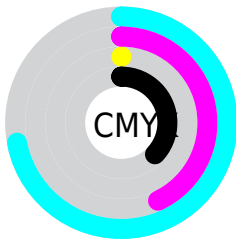
Distribution



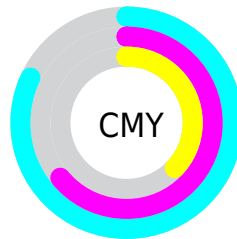
- Red (18%)
- Green (36%)
- Blue (63%)



- Red (18%)
- Yellow (31%)
- Blue (63%)



- Cyan (72%)
- Magenta (43%)
- Yellow (0%)
- Black (37%)



- Cyan (82%)
- Magenta (64%)
- Yellow (37%)

Brightness & Saturation Gradients

These gradients show how the RYB color 45, 78, 161 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 45, 78, 161 by changing the saturation by 10% instead.

■ 45, 78, 161 ■ 45, 78, 161

255, 255, 255 ■ 0, 45, 134

■ 105, 132, 216 ■ 0, 32, 109

■ 134, 159, 245 ■ 0, 20, 84

■ 162, 186, 255 ■ 0, 3, 60

■ 191, 212, 255 ■ 0, 2, 38

■ 220, 236, 255 ■ 0, 1, 14

■ 250, 253, 255 ■ 0, 0, 0

■ 45, 78, 161 ■ 45, 78, 161

■ 29, 66, 161 ■ 61, 90, 161

■ 13, 55, 161

■ 77, 101, 161

■ 0, 46, 161

■ 93, 112, 161

■ 109, 124, 161

■ 126, 136, 161

■ 142, 147, 161

■ 158, 159, 161

■ 169, 174, 161

■ 181, 190, 161

Harmonies

Analogous

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



0, 62, 158



45, 78, 161



111, 76, 145

Triad

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



45, 78, 161



149, 74, 46



0, 65, 107

Complementary

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



45, 78, 161



121, 161, 45

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.



35, 103, 80



45, 78, 161



98, 127, 20

Square

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



45, 78, 161



156, 58, 79



16, 97, 13



0, 56, 109

Rectangle

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



45, 78, 161



136, 66, 126



16, 97, 13



7, 73, 106

Sweetspot

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



45, 78, 161



163, 176, 209



45, 117, 161



77, 85, 105



232, 232, 232



105, 105, 105

Same Dimension

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



45, 78, 161



29, 80, 209



57, 45, 161



73, 76, 82



0, 41, 145



0, 5, 18

Inverse Universe

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



161, 45, 91



209, 29, 101



45, 161, 57



82, 73, 77



145, 0, 58



18, 0, 7

Previews

White Background



This preview shows how the RYB color 45, 78, 161 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 × Fail

Black Background



This preview shows how the RYB color 45, 78, 161 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

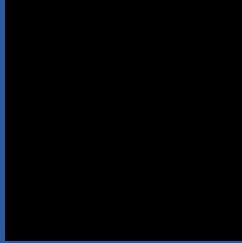
Any Text WCAG AA × Fail

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](#).

R Y B 45, 78, 161 Background



This preview shows how black text looks on a background with the R Y B color 45, 78, 161.



This preview shows how white text looks on a background with the R Y B color 45, 78, 161.

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

45, 78, 161

Protanopia

60, 82, 159

Deuteranopia

32, 73, 161



Tritanopia
0, 53, 109

Trichromacy



Original Color

45, 78, 161

Protanomaly

55, 81, 160

Deuteranomaly

37, 75, 161

Tritanomaly

16, 63, 128

Monochromacy



Original Color

45, 78, 161

Achromatopsia

85, 85, 85

Achromatomaly

70, 82, 113

CSS Examples

Text

The CSS property to change the color of the text to RYB 45, 78, 161 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(45, 91, 161)` looks like.

```
.text, #text, p{  
    color:rgb(45, 91, 161)  
}
```

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(45, 91, 161) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 91, 161) }
```

Border

The CSS property to change the border of an element to RYB 45, 78, 161 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(45, 91, 161) }
```

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

```
.border{ border-color:rgb(45, 91, 161) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 91, 161)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 91, 161); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 91, 161);  
box-shadow:4px 4px 4px 4px rgb(45, 91,  
161) }
```

Background

The CSS property to change the background color of an element to RYB 45, 78, 161 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 91, 161) }
```

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

```
.background{ background-color: rgb(45, 91,  
161) }
```

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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