

# Converting Colors

`RYB(163, 125, 233)`

Have a look what the booklet for  
RYB(163, 125, 233) contains.

<b>RYB(163, 125, 233)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	11
<b><i>Previews</i></b> .....	23
<b><i>Color Blindness Simulation</i></b> .....	26
<b><i>CSS Examples</i></b> .....	29

# Color

**R<sub>Y</sub>B(163, 125, 233)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A37DE9
RGB	163, 125, 233
RGB Percent	64%, 49%, 91%
CMY	0.3608, 0.5098, 0.0863
CMYK	0.30, 0.46, 0.00, 0.09
HSL	261°, 71%, 70%
HSV	261°, 46%, 91%
XYZ	37.1459, 28.3370, 80.6026
YIQ	148.6740, -12.0200, 41.6440

# Conversions

## Conversions Part 2

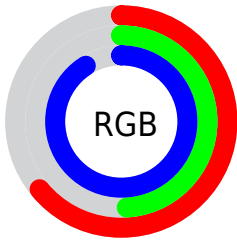
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	163, 125, 233
Decimal	10714601
CIE <sub>Lab</sub>	60.19, 37.15, -49.56
CIE <sub>LCh</sub>	60, 61.935, 306.855
Yxy	28.3370, 0.2543, 0.1940
Android (android.graphics.Color)	4288904681 (0xFFA37DE9)
YUV	148.6740, 41.5727, 12.5639
Hunter-Lab	53.2325, 31.4013, -52.5119

# Details

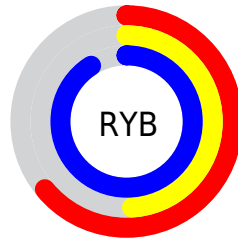
The RYB color **163, 125, 233** is a light color, and the websafe version is hex **9966CC**. A complement of this color would be **125, 233, 163**, and the grayscale version is **148, 148, 148**.

A 20% lighter version of the original color is **220, 178, 255**, and **108, 75, 177** is the 20% darker color. If you saturate the color by 10%, you get **148, 102, 233**, and if you desaturate by 10%, it is **178, 148, 233**.

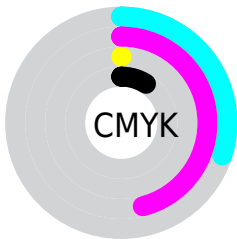
# Distribution



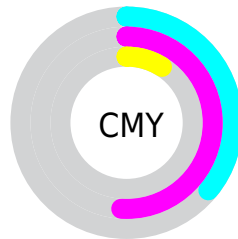
- Red (64%)
- Green (49%)
- Blue (91%)



- Red (64%)
- Yellow (49%)
- Blue (91%)



- Cyan (30%)
- Magenta (46%)
- Yellow (0%)
- Black (9%)



- Cyan (36%)
- Magenta (51%)
- Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 163, 125, 233 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 163, 125, 233 by changing the saturation by 10% instead.



 163, 125, 233

255, 255, 255

 220, 178, 255

 250, 206, 255

 255, 234, 255

 163, 125, 233

 135, 100, 205

 108, 75, 177

 81, 51, 150

 53, 28, 123

 22, 5, 98

 0, 0, 73


 0, 4, 50

 0, 1, 28

 0, 0, 0

 163, 125, 233

 163, 125, 233

 148, 102, 233


 178, 148, 233

 133, 78, 233

 193, 172, 233

 118, 55, 233

 208, 195, 233

 103, 32, 233

 223, 218, 233

 87, 9, 233

 233, 242, 236

 82, 0, 233

 233, 255, 234

 233, 255, 233

# Harmonies

## Analogous

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



27, 106, 254



163, 125, 233



220, 101, 189

# Triad

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



163, 125, 233



189, 206, 39



0, 89, 171

# Complementary

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



163, 125, 233



125, 233, 163

# 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, 105, 168



163, 125, 233



31, 161, 16

# Square

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



163, 125, 233



236, 108, 82



50, 160, 107



0, 93, 209

# Rectangle

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



163, 125, 233



239, 92, 153



50, 160, 107



0, 94, 170



# Sweetspot

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



163, 125, 233



232, 219, 255



125, 167, 233



113, 106, 128



0, 0, 0



128, 128, 128



# Same Dimension

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



163, 125, 233



162, 112, 255



217, 125, 233



110, 106, 117



64, 0, 181



19, 0, 54



# Inverse Universe

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



233, 125, 195



255, 112, 205



125, 233, 217



117, 106, 113



181, 0, 117

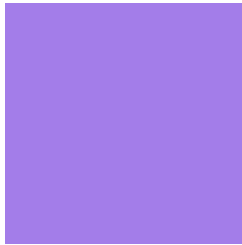


54, 0, 35



# Previews

## White Background



This preview shows how the RYB color 163, 125, 233 looks on a white background.

## Color Contrast Check

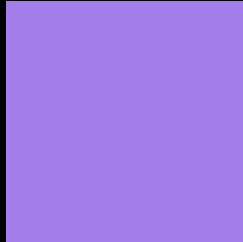
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

# Black Background



This preview shows how the RYB color 163, 125, 233 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

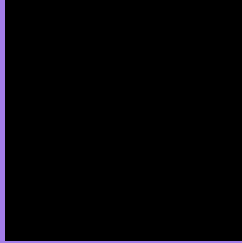
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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



## RYB 163, 125, 233 Background



This preview shows how black text looks on a background with the RYB color 163, 125, 233.

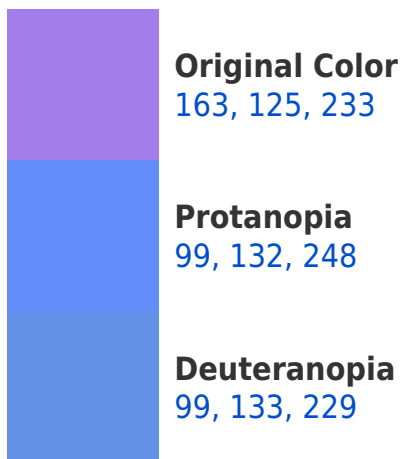



This preview shows how white text looks on a background with the RYB color 163, 125, 233.

# 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





# Tritanopia

148, 143, 154

# Trichromacy



**Original Color**

163, 125, 233



**Protanomaly**

122, 135, 243



**Deuteranomaly**

122, 136, 230



**Tritanomaly**

153, 136, 183

# Monochromacy



**Original Color**

163, 125, 233



**Achromatopsia**

149, 149, 149



**Achromatomaly**

154, 140, 180

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 163, 125, 233 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(163, 125, 233)` looks like.

```
.text, #text, p{  
    color:rgb(163, 125, 233)  
}
```

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(163, 125, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(163, 125, 233) }
```

## Border

The CSS property to change the border of an element to RYB 163, 125, 233 is called "border". The border property can be set on classes, ids or directly on the HTML element.

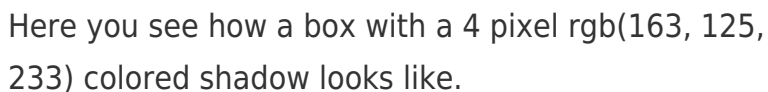
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(163, 125, 233) }
```

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

```
.border{ border-color:rgb(163, 125, 233) }
```

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



Here you see how a box with a 4 pixel `rgb(163, 125, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(163, 125, 233); -webkit-box-shadow:4px 4px 4px 4px rgb(163, 125, 233); box-shadow:4px 4px 4px 4px rgb(163, 125, 233) }
```

# Background

The CSS property to change the background color of an element to RYB 163, 125, 233 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(163, 125, 233) }
```

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

```
.background{ background-color: rgb(163,  
125, 233) }
```

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](#).



Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor