

# Converting Colors

`RYB(51, 113, 35)`

Have a look what the booklet for  
RYB(51, 113, 35) contains.

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# Color

**R<sub>Y</sub>B(51, 113, 35)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	716423
RGB	113, 100, 35
RGB Percent	44%, 39%, 14%
CMY	0.5569, 0.6089, 0.8627
CMYK	0.00, 0.12, 0.69, 0.56
HSL	50°, 53%, 29%
HSV	50°, 69%, 44%
XYZ	11.6441, 12.6934, 3.4265
YIQ	96.4770, 28.6130, -17.4590

# Conversions

## Conversions Part 2

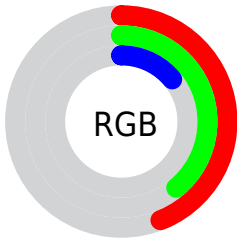
<b>Format</b>	<b>Color</b>
<b>RYB</b>	51, 113, 35
Decimal	7431203
CIELab	42.30, -2.95, 37.37
CIElCh	42, 37.487, 94.521
Yxy	12.6934, 0.4194, 0.4572
Android (android.graphics.Color)	4285621283 (0xFF716423)
YUV	96.4770, -30.3082, 14.4907
Hunter-Lab	35.6278, -4.0103, 19.2373

# Details

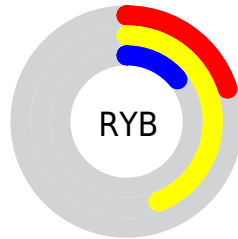
The RYB color **51, 113, 35** is a dark color, and the websafe version is hex **666633**. A complement of this color would be **35, 46, 113**, and the grayscale version is **97, 97, 97**.

A 20% lighter version of the original color is **103, 167, 83**, and **11, 63, 0** is the 20% darker color. If you saturate the color by 10%, you get **42, 113, 24**, and if you desaturate by 10%, it is **59, 113, 46**.

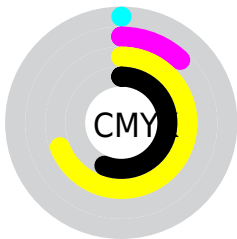
# Distribution



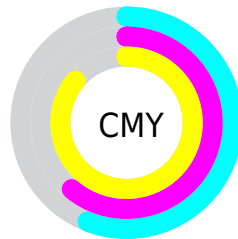
- Red (44%)
- Green (39%)
- Blue (14%)



- Red (20%)
- Yellow (44%)
- Blue (14%)



- Cyan (0%)
- Magenta (12%)
- Yellow (69%)
- Black (56%)



















- Cyan (56%)
- Magenta (61%)
- Yellow (86%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 51, 113, 35 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 51, 113, 35 by changing the saturation by 10% instead.



 51, 113, 35	 51, 113, 35
255, 255, 255	 22, 87, 9
 104, 167, 83	 12, 63, 0
 131, 195, 108	 7, 38, 0
 160, 224, 134	 0, 10, 5
 188, 253, 161	 0, 0, 0
 188, 255, 188	
 216, 255, 216	
 245, 255, 245	
 51, 113, 35	 51, 113, 35

■ 42, 113, 24

■ 59, 113, 46

■ 32, 113, 12

■ 69, 113, 58

■ 24, 113, 1

■ 79, 113, 69

■ 23, 113, 0

■ 87, 113, 80

■ 97, 113, 92

■ 106, 113, 103

■ 113, 113, 114

■ 113, 115, 125

■ 113, 116, 137

# Harmonies

## Analogous

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



138, 130, 44



51, 113, 35



46, 108, 73

# Triad

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



51, 113, 35



0, 62, 134



141, 78, 127

# Complementary

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



51, 113, 35



35, 46, 113

# 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.



108, 90, 151



51, 113, 35



0, 64, 155

# Square

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



51, 113, 35



0, 60, 115



50, 85, 161



156, 73, 96

# Rectangle

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



51, 113, 35



54, 105, 112



50, 85, 161



132, 82, 136



# Sweetspot

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



51, 113, 35



123, 148, 117



113, 35, 49



59, 74, 55



201, 201, 201



74, 74, 74



# Same Dimension

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



51, 113, 35



50, 148, 25



35, 113, 60



51, 56, 50



25, 120, 0



51, 247, 0



# Inverse Universe

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



35, 46, 113



25, 43, 148



60, 35, 113



50, 51, 56



0, 17, 120



0, 36, 247



# Previews

## White Background



This preview shows how the RYB color 51, 113, 35 looks on a white background.

## Color Contrast Check

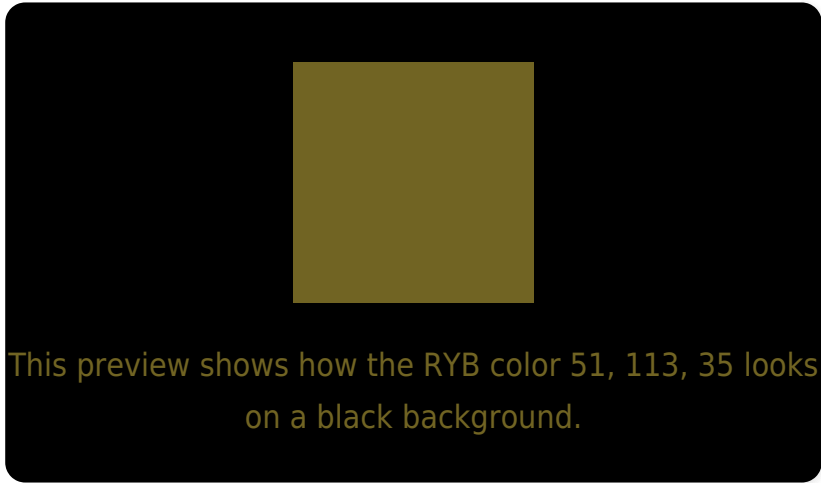
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

# Black Background



## 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](#).



## **RYB 51, 113, 35 Background**



This preview shows how black text looks on a background with the RYB color 51, 113, 35.



This preview shows how white text looks on a background with the RYB color 51, 113, 35.

# 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

51, 113, 35

### Protanopia

49, 112, 35

### Deuteranopia

83, 125, 37



**Tritanopia**  
118, 93, 101

# Trichromacy



**Original Color**

51, 113, 35

**Protanomaly**

49, 112, 35

**Deuteranomaly**

69, 121, 36

**Tritanomaly**

116, 110, 77

# Monochromacy



**Original Color**

51, 113, 35

**Achromatopsia**

96, 96, 96

**Achromatomaly**

80, 102, 74

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 51, 113, 35 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(113, 100, 35)` looks like.

```
.text, #text, p{  
    color:rgb(113, 100, 35)  
}
```

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(113, 100, 35) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(113, 100, 35) }
```

## Border

The CSS property to change the border of an element to RYB 51, 113, 35 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(113, 100, 35) }
```

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

```
.border{ border-color:rgb(113, 100, 35) }
```

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

Here you see how a box with a 4 pixel `rgb(113, 100, 35)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(113, 100, 35); -webkit-box-  
shadow:4px 4px 4px 4px rgb(113, 100, 35);  
box-shadow:4px 4px 4px 4px rgb(113, 100,  
35) }
```

# Background

The CSS property to change the background color of an element to RYB 51, 113, 35 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(113, 100, 35) }
```

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

```
.background{ background-color: rgb(113,  
100, 35) }
```

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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