

# Converting Colors

`RYB(81, 157, 53)`

Have a look what the booklet for  
RYB(81, 157, 53) contains.

<b>RYB(81, 157, 53)</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(81, 157, 53)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9D8735
RGB	157, 135, 53
RGB Percent	62%, 53%, 21%
CMY	0.3843, 0.4708, 0.7922
CMYK	0.00, 0.14, 0.66, 0.38
HSL	47°, 50%, 41%
HSV	47°, 66%, 62%
XYZ	23.2028, 24.7362, 6.9198
YIQ	132.2300, 39.4340, -20.8380

# Conversions

## Conversions Part 2

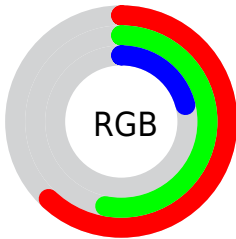
Format	Color
<b>RYB</b>	81, 157, 53
Decimal	10323765
CIELab	56.82, -1.38, 45.73
CIELCh	57, 45.755, 91.725
Yxy	24.7362, 0.4230, 0.4509
Android (android.graphics.Color)	4288513845 (0xFF9D8735)
YUV	132.2300, -39.0604, 21.7233
Hunter-Lab	49.7355, -3.7627, 26.5657

# Details

The RYB color **81, 157, 53** is a dark color, and the websafe version is hex **999933**. A complement of this color would be **53, 71, 157**, and the grayscale version is **133, 133, 133**.

A 20% lighter version of the original color is **138, 214, 104**, and **19, 102, 0** is the 20% darker color. If you saturate the color by 10%, you get **69, 157, 37**, and if you desaturate by 10%, it is **93, 157, 69**.

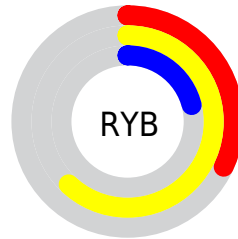
# Distribution



Red (62%)

Green (53%)

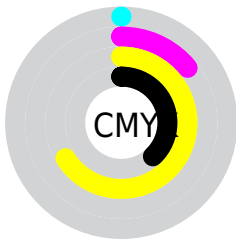
Blue (21%)



Red (32%)

Yellow (62%)

Blue (21%)

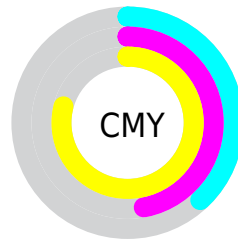


Cyan (0%)

Magenta (14%)

Yellow (66%)

Black (38%)



Cyan (38%)

Magenta (47%)

Yellow (79%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 81, 157, 53 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 81, 157, 53 by changing the saturation by 10% instead.



81, 157, 53

81, 157, 53

255, 255, 255

50, 129, 27

138, 214, 104

19, 102, 0

165, 243, 130

17, 77, 0

168, 255, 156

12, 51, 0

184, 255, 184

6, 26, 0

212, 255, 212

0, 0, 0

241, 255, 241

81, 157, 53

81, 157, 53

69, 157, 37

93, 157, 69

■ 59, 157, 22

■ 103, 157, 84

■ 47, 157, 6

■ 115, 157, 100

■ 42, 157, 0

■ 128, 157, 116

■ 138, 157, 132

■ 150, 157, 147

■ 157, 158, 163

■ 157, 161, 179

■ 157, 164, 194

# Harmonies

## Analogous

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



189, 162, 66



81, 157, 53



65, 146, 95

# Triad

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



81, 157, 53



0, 83, 177



187, 110, 175

# Complementary

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



81, 157, 53



53, 71, 157

# 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.



142, 125, 204



81, 157, 53



0, 87, 206

# Square

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



81, 157, 53



0, 83, 156



64, 115, 216



209, 102, 136

# Rectangle

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



81, 157, 53



83, 149, 151



64, 115, 216



175, 114, 186



# Sweetspot

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



81, 157, 53



175, 204, 163



157, 53, 76



84, 102, 78



230, 230, 230



102, 102, 102



# Same Dimension

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



81, 157, 53



86, 204, 43



53, 157, 82



74, 79, 71



38, 143, 0



4, 15, 0



# Inverse Universe

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



53, 71, 157



43, 71, 204



82, 53, 157



71, 73, 79



0, 25, 143



0, 3, 15



# Previews

## White Background



This preview shows how the RYB color 81, 157, 53 looks on a white background.

## Color Contrast Check

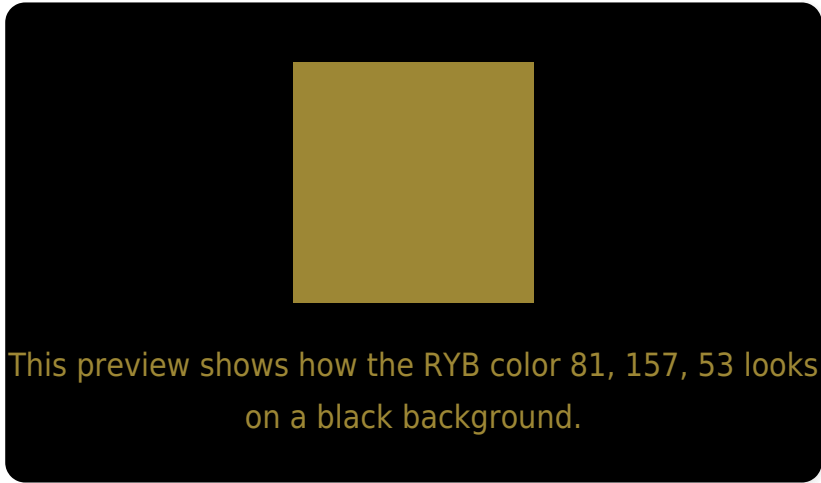
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



## 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](#).



## R Y B 81, 157, 53 Background



This preview shows how black text looks on a background with the R Y B color 81, 157, 53.



This preview shows how white text looks on a background with the R Y B color 81, 157, 53.

# 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**

81, 157, 53

**Protanopia**

72, 152, 54

**Deuteranopia**

116, 170, 55



**Tritanopia**  
164, 126, 136

# Trichromacy



**Original Color**  
81, 157, 53

**Protanomaly**  
76, 154, 54

**Deuteranomaly**  
101, 165, 54

**Tritanomaly**  
161, 146, 106

# Monochromacy



**Original Color**  
81, 157, 53

**Achromatopsia**  
132, 132, 132

**Achromatomaly**  
113, 141, 103

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 81, 157, 53 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(157, 135, 53)` looks like.

```
.text, #text, p{  
    color:rgb(157, 135, 53)  
}
```

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(157, 135, 53) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(157, 135, 53) }
```

## Border

The CSS property to change the border of an element to RYB 81, 157, 53 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(157, 135, 53) }
```

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

```
.border{ border-color:rgb(157, 135, 53) }
```

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

Here you see how a box with a 4 pixel `rgb(157, 135, 53)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(157, 135, 53); -webkit-box-  
shadow:4px 4px 4px 4px rgb(157, 135, 53);  
box-shadow:4px 4px 4px 4px rgb(157, 135,  
53) }
```

# Background

The CSS property to change the background color of an element to RGB 81, 157, 53 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(157, 135, 53) }
```

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

```
.background{ background-color: rgb(157,  
135, 53) }
```

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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