

# Converting Colors

`RYB(82, 162, 111)`

Have a look what the booklet for  
RYB(82, 162, 111) contains.

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# Color

**$\text{RYB}(82, 162, 111)$**

# Conversions

## Conversions Part 1

Format	Color
Hex	85A252
RGB	133, 162, 82
RGB Percent	52%, 64%, 32%
CMY	0.4784, 0.3647, 0.6784
CMYK	0.18, 0.00, 0.49, 0.36
HSL	82°, 33%, 48%
HSV	82°, 49%, 64%
XYZ	24.1162, 31.4364, 12.7794
YIQ	144.2090, 8.3960, -31.0280

# Conversions

## Conversions Part 2

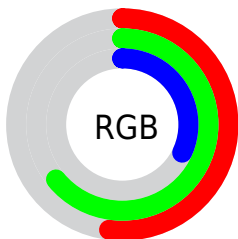
<b>Format</b>	<b>Color</b>
<b>RYB</b>	82, 162, 111
Decimal	8757842
CIELab	62.87, -23.44, 38.07
CIElCh	63, 44.704, 121.619
Yxy	31.4364, 0.3529, 0.4601
Android (android.graphics.Color)	4286947922 (0xFF85A252)
YUV	144.2090, -30.6690, -9.8303
Hunter-Lab	56.0682, -21.3424, 25.7340

# Details

The RYB color **82, 162, 111** is a dark color, and the websafe version is hex **669933**. A complement of this color would be **111, 82, 162**, and the grayscale version is **145, 145, 145**.

A 20% lighter version of the original color is **133, 217, 162**, and **33, 110, 62** is the 20% darker color. If you saturate the color by 10%, you get **66, 162, 101**, and if you desaturate by 10%, it is **98, 162, 121**.

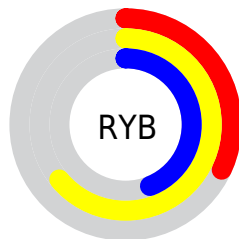
# Distribution



Red (52%)

Green (64%)

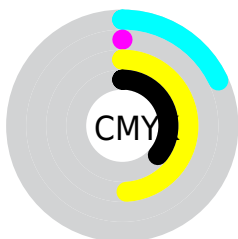
Blue (32%)



Red (32%)

Yellow (64%)

Blue (44%)

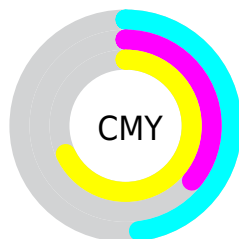


Cyan (18%)

Magenta (0%)

Yellow (49%)

Black (36%)



Cyan (48%)

Magenta (36%)

Yellow (68%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 82, 162, 111 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 82, 162, 111 by changing the saturation by 10% instead.



 82, 162, 111       82, 162, 111

255, 255, 255       57, 136, 86

 133, 217, 162       33, 110, 62

 160, 245, 189       6, 86, 36

 187, 255, 197       0, 62, 29

 215, 255, 215       0, 40, 35

 244, 255, 244       0, 18, 18

 0, 0, 0

 82, 162, 111       82, 162, 111

 66, 162, 101       98, 162, 121

■ 50, 162, 91

■ 114, 162, 131

■ 33, 162, 80

■ 131, 162, 142

■ 17, 162, 69

■ 147, 162, 153

■ 1, 162, 59

■ 162, 162, 163

■ 0, 162, 59

■ 168, 162, 179

■ 174, 162, 195

■ 180, 162, 212

■ 186, 162, 228

# Harmonies

## Analogous

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



100, 174, 70



82, 162, 111



82, 146, 169

# Triad

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



82, 162, 111



0, 95, 221



225, 119, 152

# Complementary

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



82, 162, 111



111, 82, 162

# 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.



203, 126, 191



82, 162, 111



87, 134, 231

# Square

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



82, 162, 111



0, 91, 193



158, 141, 220



225, 124, 113

# Rectangle

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



82, 162, 111



20, 105, 172



158, 141, 220



220, 120, 165



# Sweetspot

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



82, 162, 111



180, 212, 192



162, 125, 82



88, 107, 95



235, 235, 235



107, 107, 107



# Same Dimension

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



82, 162, 111



87, 212, 133



82, 162, 150



73, 82, 76



0, 145, 52



0, 18, 7



# Inverse Universe

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



111, 82, 162



132, 87, 212



150, 82, 162



76, 73, 82



53, 0, 145



6, 0, 18



# Previews

## White Background



This preview shows how the RYB color 82, 162, 111 looks on a white 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

# Black Background



This preview shows how the RYB color 82, 162, 111 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 ✓ Pass

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



## RGB 82, 162, 111 Background



This preview shows how black text looks on a background with the RGB color 82, 162, 111.

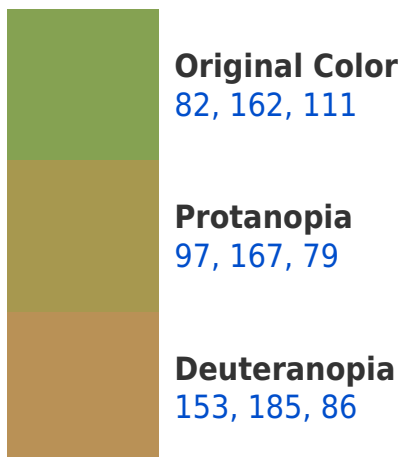


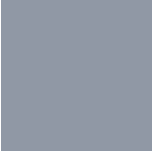
This preview shows how white text looks on a background with the RGB color 82, 162, 111.

# 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

144, 150, 165

# Trichromacy



**Original Color**  
82, 162, 111

**Protanomaly**  
80, 156, 81

**Deuteranomaly**  
103, 166, 85

**Tritanomaly**  
135, 156, 151

# Monochromacy



**Original Color**  
82, 162, 111

**Achromatopsia**  
144, 144, 144

**Achromatomaly**  
121, 151, 132

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 82, 162, 111 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(133, 162, 82)` looks like.

```
.text, #text, p{  
    color:rgb(133, 162, 82)  
}
```

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(133, 162, 82) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 162, 82) }
```

## Border

The CSS property to change the border of an element to RYB 82, 162, 111 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(133, 162, 82) }
```

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

```
.border{ border-color:rgb(133, 162, 82) }
```

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

Here you see how a box with a 4 pixel `rgb(133, 162, 82)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(133, 162, 82); -webkit-box-shadow:4px 4px 4px 4px rgb(133, 162, 82); box-shadow:4px 4px 4px 4px rgb(133, 162, 82) }
```

# Background

The CSS property to change the background color of an element to RGB 82, 162, 111 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 162, 82) }
```

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

```
.background{ background-color: rgb(133,  
162, 82) }
```

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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