

Converting Colors

`RYB(87, 102, 117)`

Have a look what the booklet for
RYB(87, 102, 117) contains.

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Color

R_YB(87, 102, 117)

Conversions

Conversions Part 1

Format	Color
Hex	577575
RGB	87, 117, 117
RGB Percent	34%, 46%, 46%
CMY	0.6588, 0.5412, 0.5412
CMYK	0.26, 0.00, 0.00, 0.54
HSL	180°, 15%, 40%
HSV	180°, 26%, 46%
XYZ	13.5027, 16.0332, 19.2127
YIQ	108.0300, -17.8800, -6.3600

Conversions

Conversions Part 2

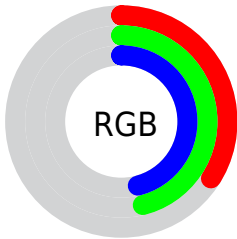
Format	Color
RYB	87, 102, 117
Decimal	5731701
CIELab	47.02, -10.74, -3.53
CIElCh	47, 11.300, 198.182
Yxy	16.0332, 0.2770, 0.3289
Android (android.graphics.Color)	4283921781 (0xFF577575)
YUV	108.0300, 4.4222, -18.4433
Hunter-Lab	40.0414, -9.8793, -0.4195

Details

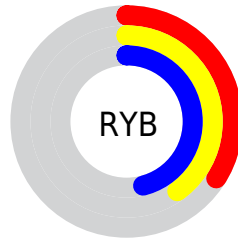
The RYB color **87, 102, 117** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **117, 87, 87**, and the grayscale version is **108, 108, 108**.

A 20% lighter version of the original color is **138, 154, 169**, and **40, 55, 69** is the 20% darker color. If you saturate the color by 10%, you get **75, 96, 117**, and if you desaturate by 10%, it is **99, 108, 117**.

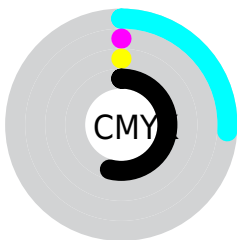
Distribution



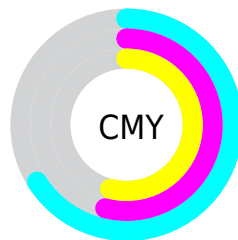
- Red (34%)
- Green (46%)
- Blue (46%)



- Red (34%)
- Yellow (40%)
- Blue (46%)



- Cyan (26%)
- Magenta (0%)
- Yellow (0%)
- Black (54%)



- Cyan (66%)
- Magenta (54%)
- Yellow (54%)

Brightness & Saturation Gradients

These gradients show how the RYB color 87, 102, 117 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 87, 102, 117 by changing the saturation by 10% instead.



87, 102, 117



87, 102, 117

255, 255, 255



63, 78, 92



138, 154, 169



40, 55, 69



164, 180, 196



17, 32, 47



192, 208, 224



0, 13, 26



220, 237, 253



0, 0, 0



248, 252, 255



87, 102, 117



87, 102, 117



75, 96, 117



99, 108, 117



64, 91, 117



110, 114, 117

■ 52, 85, 117

■ 122, 117, 117

■ 40, 79, 117

■ 134, 117, 117

■ 29, 73, 117

■ 146, 117, 117

■ 17, 67, 117

■ 157, 117, 117

■ 5, 61, 117

■ 169, 117, 117

■ 0, 59, 117

■ 181, 117, 117

■ 192, 117, 117

Harmonies

Analogous

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



92, 108, 117



87, 102, 117



88, 104, 125

Triad

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



87, 102, 117



120, 107, 124



116, 123, 93

Complementary

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



87, 102, 117



117, 87, 87

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.



129, 111, 98



87, 102, 117



128, 105, 116

Square

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



87, 102, 117



108, 110, 129



132, 105, 106



93, 113, 93

Rectangle

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



87, 102, 117



93, 106, 129



132, 105, 106



125, 123, 94

Sweetspot

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



87, 102, 117



141, 147, 153



87, 117, 117



69, 73, 77



204, 204, 204



77, 77, 77

Same Dimension

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



87, 102, 117



106, 130, 153



87, 97, 117



53, 56, 59



0, 61, 122



0, 125, 250

Inverse Universe

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



117, 87, 117



153, 106, 153



117, 117, 87



59, 53, 59



122, 0, 122



250, 0, 250

Previews

White Background



This preview shows how the RYB color 87, 102, 117 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 87, 102, 117 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

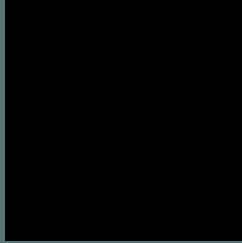
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

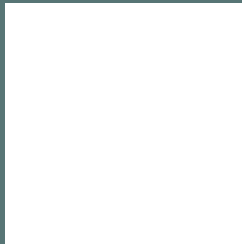
Any Text WCAG AAA × Fail

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

R Y B 87, 102, 117 Background



This preview shows how black text looks on a background with the R Y B color 87, 102, 117.



This preview shows how white text looks on a background with the R Y B color 87, 102, 117.

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

[87](#), [102](#), [117](#)

Protanopia

[112](#), [111](#), [113](#)

Deuteranopia

[118](#), [108](#), [119](#)



Tritanopia
89, 104, 125

Trichromacy



Original Color

87, 102, 117

Protanomaly

103, 108, 114

Deuteranomaly

107, 110, 118

Tritanomaly

88, 103, 122

Monochromacy



Original Color

87, 102, 117

Achromatopsia

108, 108, 108

Achromatomaly

100, 106, 111

CSS Examples

Text

The CSS property to change the color of the text to RYB 87, 102, 117 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(87, 117, 117)` looks like.

```
.text, #text, p{  
    color:rgb(87, 117, 117)  
}
```

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(87, 117, 117) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(87, 117, 117) }
```

Border

The CSS property to change the border of an element to RYB 87, 102, 117 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(87, 117, 117) }
```

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

```
.border{ border-color:rgb(87, 117, 117) }
```

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

Here you see how a box with a 4 pixel `rgb(87, 117, 117)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(87, 117, 117); -webkit-box-  
shadow:4px 4px 4px 4px rgb(87, 117, 117);  
box-shadow:4px 4px 4px 4px rgb(87, 117,  
117) }
```

Background

The CSS property to change the background color of an element to RGB 87, 102, 117 is called "background".

The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(87, 117, 117) }
```

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

```
.background{ background-color: rgb(87, 117,  
117) }
```

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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