

Converting Colors

`RYB(163, 52, 49)`

Have a look what the booklet for
RYB(163, 52, 49) contains.

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Color

R_YB(163, 52, 49)

Conversions

Conversions Part 1

Format	Color
Hex	A33431
RGB	163, 52, 49
RGB Percent	64%, 20%, 19%
CMY	0.3608, 0.7964, 0.8078
CMYK	0.00, 0.68, 0.70, 0.36
HSL	2°, 54%, 42%
HSV	2°, 70%, 64%
XYZ	16.8832, 10.4574, 4.0344
YIQ	84.8470, 67.1190, 22.5990

Conversions

Conversions Part 2

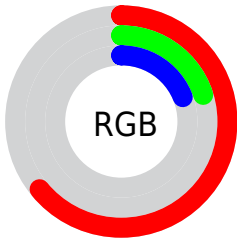
Format	Color
RYB	163, 52, 49
Decimal	10695729
CIELab	38.65, 45.50, 27.55
CIELCh	39, 53.192, 31.194
Yxy	10.4574, 0.5381, 0.3333
Android (android.graphics.Color)	4288885809 (0xFFA33431)
YUV	84.8470, -17.6726, 68.5402
Hunter-Lab	32.3379, 36.6012, 15.2397

Details

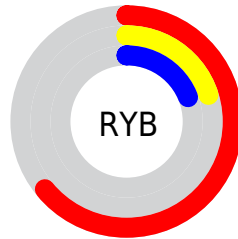
The RYB color **163, 52, 49** is a dark color, and the websafe version is hex **993333**. A complement of this color would be **49, 105, 163**, and the grayscale version is **85, 85, 85**.

A 20% lighter version of the original color is **223, 106, 95**, and **104, 0, 4** is the 20% darker color. If you saturate the color by 10%, you get **163, 36, 33**, and if you desaturate by 10%, it is **163, 68, 65**.

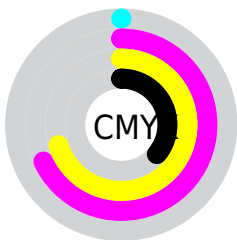
Distribution



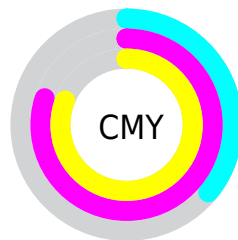
- Red (64%)
- Green (20%)
- Blue (19%)



- Red (64%)
- Yellow (20%)
- Blue (19%)



- Cyan (0%)
- Magenta (68%)
- Yellow (70%)
- Black (36%)



- Cyan (36%)
- Magenta (80%)
- Yellow (81%)

Brightness & Saturation Gradients

These gradients show how the RYB color 163, 52, 49 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, 52, 49 by changing the saturation by 10% instead.

 163, 52, 49

 163, 52, 49

255, 255, 255

 133, 23, 28

 223, 106, 95

 104, 0, 4

 254, 133, 120

 76, 0, 0

 255, 161, 146

 50, 0, 2

 255, 190, 173

 0, 0, 0

 255, 221, 200

 247, 255, 228

 163, 52, 49

 163, 52, 49


 163, 36, 33

 163, 68, 65

 163, 20, 16

 163, 84, 82

 163, 4, 0

 163, 100, 98

 163, 115, 114

 163, 131, 131

 163, 147, 147

 163, 163, 163

 163, 171, 179

 163, 179, 196

Harmonies

Analogous

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



165, 42, 91



163, 52, 49



142, 134, 6

Triad

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



163, 52, 49



0, 74, 107



0, 62, 178

Complementary

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



163, 52, 49



49, 105, 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, 65, 167



163, 52, 49



0, 60, 110

Square

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



163, 52, 49



0, 101, 36



0, 61, 135



90, 79, 166

Rectangle

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



163, 52, 49



51, 121, 0



0, 61, 135



0, 64, 177

Sweetspot

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



163, 52, 49



212, 168, 167



163, 49, 161



107, 81, 80



235, 235, 235



107, 107, 107

Same Dimension

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



163, 52, 49



212, 38, 34



155, 163, 49



82, 74, 73



145, 4, 0



18, 0, 0

Inverse Universe

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



49, 105, 163



34, 122, 212



49, 86, 163



73, 77, 82



0, 72, 145



0, 9, 18

Previews

White Background



This preview shows how the RYB color 163, 52, 49 looks on a white background.

Color Contrast Check

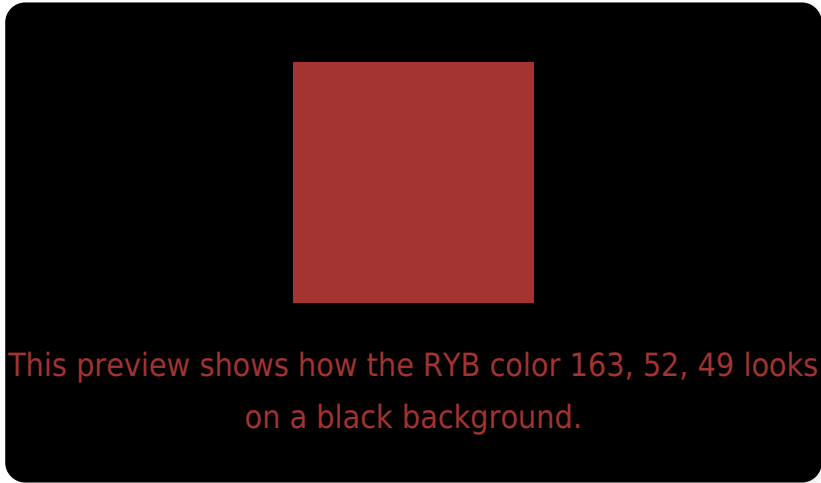
Large Text (above 18pt) WCAG AA ✓ Pass

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](#).

RYP 163, 52, 49 Background



This preview shows how black text looks on a background with the RYB color 163, 52, 49.

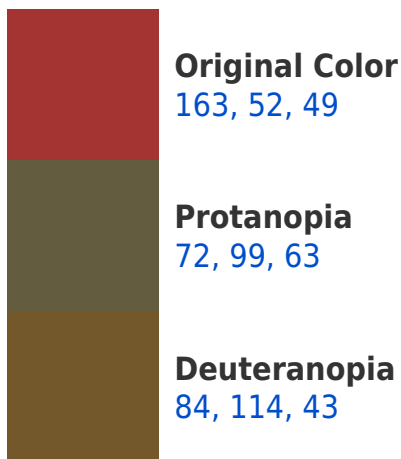


This preview shows how white text looks on a background with the RYB color 163, 52, 49.

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
163, 51, 54

Trichromacy



Original Color

163, 52, 49

Protanomaly

122, 85, 58

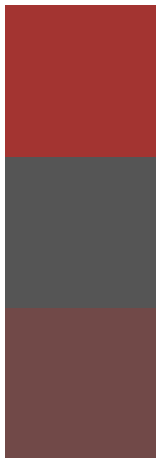
Deuteranomaly

132, 91, 45

Tritanomaly

163, 51, 52

Monochromacy



Original Color

163, 52, 49

Achromatopsia

85, 85, 85

Achromatomaly

113, 73, 72

CSS Examples

Text

The CSS property to change the color of the text to RYB 163, 52, 49 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, 52, 49)` looks like.

```
.text, #text, p{  
    color:rgb(163, 52, 49)  
}
```

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, 52, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(163, 52, 49) }
```

Border

The CSS property to change the border of an element to RYB 163, 52, 49 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, 52, 49) }
```

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

```
.border{ border-color:rgb(163, 52, 49) }
```

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

Here you see how a box with a 4 pixel rgb(163, 52, 49) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(163, 52, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(163, 52, 49);  
box-shadow:4px 4px 4px 4px rgb(163, 52,  
49) }
```

Background

The CSS property to change the background color of an element to RYB 163, 52, 49 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(163, 52, 49) }
```

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

```
.background{ background-color: rgb(163, 52,  
49) }
```

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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