

Converting Colors

XYZ(12.9996, 9.9077, 5.1757)

Have a look what the booklet for
XYZ(12.9996, 9.9077, 5.1757)
contains.

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Color

**XYZ(12.9456, 9.8367,
5.2194)**

Conversions

Conversions Part 1

Format	Color
Hex	87463A
RGB	135, 70, 58
RGB Percent	53%, 27%, 23%
CMY	0.4706, 0.7255, 0.7725
CMYK	0.00, 0.48, 0.57, 0.47
HSL	9°, 40%, 38%
HSV	9°, 57%, 53%
XYZ	12.9456, 9.8367, 5.2194
YIQ	88.0670, 42.5920, 10.0480

Conversions

Conversions Part 2

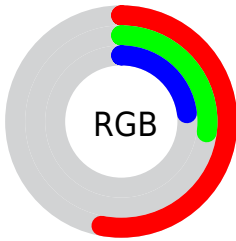
Format	Color
R_{YB}	135, 72, 58
Decimal	8865338
CIE Lab	37.55, 26.45, 19.67
CIE LCh	38, 32.960, 36.643
Yxy	9.8367, 0.4623, 0.3513
Android (android.graphics.Color)	4287055418 (0xFF87463A)
YUV	88.0670, -14.8230, 41.1602
Hunter-Lab	31.3635, 18.7915, 12.0876

Details

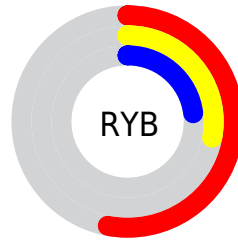
The XYZ color **12.9456, 9.8367, 5.2194** is a dark color, and the websafe version is hex **663333**. A complement of this color would be **13.2008, 16.8141, 25.4714**, and the grayscale version is **9.3155, 9.8007, 10.6729**.

A 20% lighter version of the original color is **30.7521, 25.5292, 16.6714**, and **3.7933, 2.3995, 0.7534** is the 20% darker color. If you saturate the color by 10%, you get **11.9997, 8.4244, 3.4262**, and if you desaturate by 10%, it is **14.1174, 11.5567, 7.5325**.

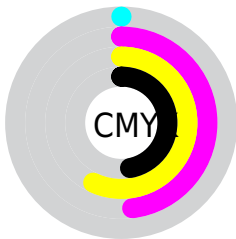
Distribution



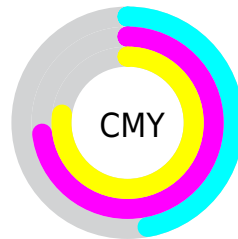
- Red (53%)
- Green (27%)
- Blue (23%)



- Red (53%)
- Yellow (28%)
- Blue (23%)



- Cyan (0%)
- Magenta (48%)
- Yellow (57%)
- Black (47%)



- Cyan (47%)
- Magenta (73%)
- Yellow (77%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9456, 9.8367, 5.2194 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 XYZ color 12.9456, 9.8367, 5.2194 by changing the saturation by 10% instead.

■ 12.9456, 9.8367,
5.2194

■ 12.9456, 9.8367,
5.2194

204.2134,
189.5026, 160.9435

■ 7.4678, 5.2908,
2.3156

■ 30.8082, 25.4879,
16.7366

■ 3.8053, 2.4189,
0.7399

■ 43.9237, 37.3620,
26.1870

■ 1.5926, 0.8356,
0.0000

■ 60.3158, 52.4476,
38.6567

■ 0.3876, 0.0000,
0.0000

■ 80.3499, 71.1292,
54.5643

■ 0.0000, 0.0000,
0.0000

■ 104.3914, 93.7911,
74.3282

■ 132.8056,

120.8177, 98.3670

165.9578,
152.5934, 127.0992

■ 12.9456, 9.8367,
5.2194

■ 12.9456, 9.8367,
5.2194

■ 11.9997, 8.4244,
3.4262

■ 14.1174, 11.5567,
7.5325

■ 11.2641, 7.2999,
2.1117

■ 15.5278, 13.5996,
10.4011

■ 10.7222, 6.4437,
1.2297

■ 17.1896, 15.9813,
13.8584

■ 10.3490, 5.8305,
0.6948

■ 19.1142, 18.7164,
17.9347

■ 10.2607, 5.6889,
0.5573

■ 21.3125, 21.8185,
22.6584

■ 23.7947, 25.3005,
28.0559

■ 26.5705, 29.1747,
34.1523

■ 29.6491, 33.4528,
40.9713

■ 33.0393, 38.1461,
48.5356

Harmonies

Analogous

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



13.9190, 9.8367, 9.4376



12.9456, 9.8367, 5.2194



11.0291, 9.8367, 3.2539

Triad

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



12.9456, 9.8367, 5.2194



6.1334, 9.8367, 6.7759



9.8205, 9.8367, 26.6226

Complementary

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



12.9456, 9.8367, 5.2194



13.2008, 16.8141, 25.4714

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.



7.8497, 9.8367, 25.0701



12.9456, 9.8367, 5.2194



5.9086, 9.8367, 12.0930

Square

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



12.9456, 9.8367, 5.2194



7.1569, 9.8367, 3.8912



6.4899, 9.8367, 19.1190



11.9495, 9.8367, 22.8029

Rectangle

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



12.9456, 9.8367, 5.2194



9.5860, 9.8367, 2.8554



6.4899, 9.8367, 19.1190



9.1169, 9.8367, 26.7279

Sweetspot

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



12.9458, 9.8372, 5.2196



34.1031, 33.3380, 31.8473



15.1082, 9.6185, 19.9473



7.7551, 7.5183, 7.0712



65.7814, 69.2071, 75.3665



9.5508, 10.0482, 10.9424

Same Dimension

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



12.9458, 9.8372, 5.2196



21.1275, 14.5388, 5.4732



16.1233, 16.1922, 6.2787



4.7269, 4.7974, 4.9062



9.4686, 5.2598, 0.5162



0.0362, 0.0251, 0.0029

Inverse Universe

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



13.2008, 16.8141, 25.4714



21.5871, 28.1974, 45.3533



9.3628, 9.1381, 24.1921



4.7415, 5.1586, 5.9466



9.5846, 12.7169, 23.0861



0.0373, 0.0523, 0.0814

Previews

White Background



This preview shows how the XYZ color 12.9456, 9.8367, 5.2194 looks on a white background.

Color Contrast Check

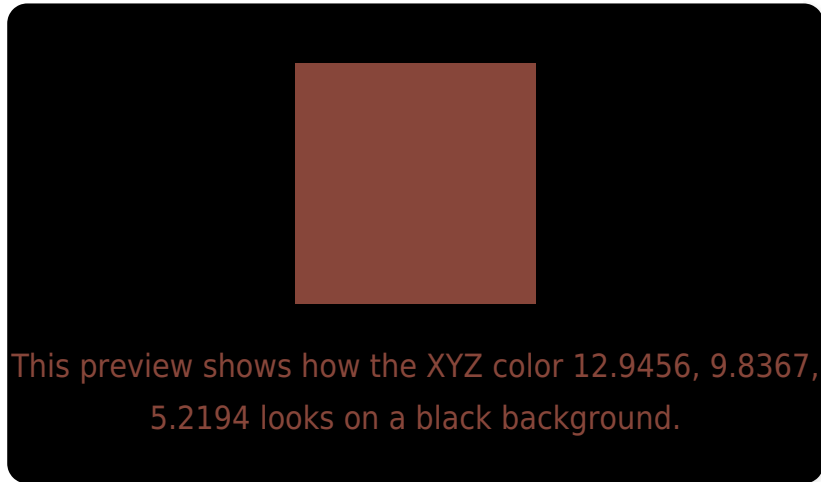
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black 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

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

XYZ 12.9456, 9.8367, 5.2194

Background



This preview shows how black text looks on a background with the XYZ color 12.9456, 9.8367, 5.2194.



This preview shows how white text looks on a background with the XYZ color 12.9456, 9.8367,

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

12.9456, 9.8367, 5.2194

Protanopia

9.2751, 9.9710, 6.5900

Deuteranopia

10.1224, 9.9610, 5.0036



Tritanopia

13.4231, 9.8495, 7.4970

Trichromacy



Original Color

12.9456, 9.8367, 5.2194

Protanomaly

10.3449, 9.7085, 6.0313

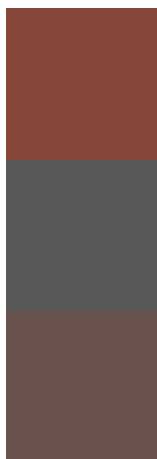
Deuteranomaly

11.0537, 9.8744, 5.0647

Tritanomaly

13.3249, 9.9078, 6.6789

Monochromacy



Original Color

12.9456, 9.8367, 5.2194

Achromatopsia

9.2757, 9.7587, 10.6273

Achromatomaly

10.1077, 9.4239, 8.3074

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9456, 9.8367, 5.2194 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(135, 70, 58)` looks like.

```
.text, #text, p{  
    color:rgb(135, 70, 58)  
}
```

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(135, 70, 58) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 70, 58) }
```

Border

The CSS property to change the border of an element to XYZ 12.9456, 9.8367, 5.2194 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(135, 70, 58) }
```


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

```
.border{ border-color:rgb(135, 70, 58) }
```

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

Here you see how a box with a 4 pixel rgb(135, 70, 58) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 70, 58); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 70, 58);  
box-shadow:4px 4px 4px 4px rgb(135, 70,  
58) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9456, 9.8367, 5.2194 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 70, 58) }
```

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

```
.background{ background-color: rgb(135, 70,  
58) }
```

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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