

Converting Colors

XYZ(12.8673, 13.1578, 17.1517)

Have a look what the booklet for
XYZ(12.8673, 13.1578, 17.1517)
contains.

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Color

**XYZ(12.9451, 13.2439,
17.2033)**

Conversions

Conversions Part 1

Format	Color
Hex	656570
RGB	101, 101, 112
RGB Percent	40%, 40%, 44%
CMY	0.6039, 0.6039, 0.5608
CMYK	0.10, 0.10, 0.00, 0.56
HSL	240°, 5%, 42%
HSV	240°, 10%, 44%
XYZ	12.9451, 13.2439, 17.2033
YIQ	102.2540, -3.5310, 3.4210

Conversions

Conversions Part 2

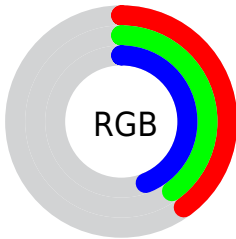
Format	Color
R_{YB}	101, 101, 112
Decimal	6645104
CIE Lab	43.13, 2.39, -6.18
CIE LCh	43, 6.622, 291.139
Yxy	13.2439, 0.2983, 0.3052
Android (android.graphics.Color)	4284835184 (0xFF656570)
YUV	102.2540, 4.8048, -1.0998
Hunter-Lab	36.3922, -0.1919, -2.5530

Details

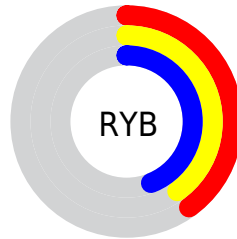
The XYZ color **12.9451, 13.2439, 17.2033** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **14.8252, 15.9725, 14.6137**, and the grayscale version is **12.6845, 13.3451, 14.5328**.

A 20% lighter version of the original color is **30.8780, 31.8122, 39.6349**, and **3.7659, 3.7928, 5.3841** is the 20% darker color. If you saturate the color by 10%, you get **10.7614, 10.6129, 16.8108**, and if you desaturate by 10%, it is **15.4487, 16.2605, 17.6538**.

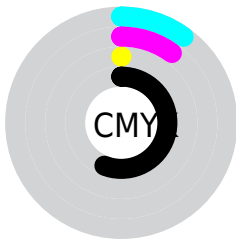
Distribution



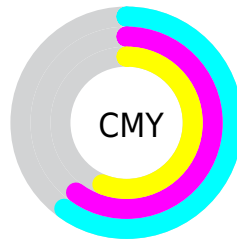
- Red (40%)
- Green (40%)
- Blue (44%)



- Red (40%)
- Yellow (40%)
- Blue (44%)



- Cyan (10%)
- Magenta (10%)
- Yellow (0%)
- Black (56%)



- Cyan (60%)
- Magenta (60%)
- Yellow (56%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9451, 13.2439, 17.2033 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 12.9451, 13.2439, 17.2033 by changing the saturation by 10% instead.

■ 12.9451, 13.2439,
17.2033

■ 12.9451, 13.2439,
17.2033

204.2102,
212.4749, 248.4247

■ 7.4675, 7.5967,
10.2161

■ 30.8073, 31.7413,
39.4704

■ 3.8051, 3.8380,
5.4350

■ 43.9225, 45.3602,
55.5874

■ 1.5924, 1.5834,
2.4415

■ 60.3144, 62.4053,
75.5847

■ 0.3875, 0.3463,
0.8089

■ 80.3483, 83.2607,
99.8808

■ 0.0000, 0.0000,
0.0000

104.3894,
108.3110, 128.8943

132.8032,

137.9406, 163.0438

165.9550,
172.5337, 202.7477

■ 12.9451, 13.2439,
17.2033

■ 12.9451, 13.2439,
17.2033

■ 10.7614, 10.6129,
16.8108

■ 15.4487, 16.2605,
17.6538

■ 8.8837, 8.3504,
16.4730

■ 18.2830, 19.6755,
18.1636

■ 7.2985, 6.4404,
16.1879

■ 21.4600, 23.5033,
18.7350

■ 5.9912, 4.8652,
15.9528

■ 24.9906, 27.7572,
19.3700

■ 4.9457, 3.6055,
15.7647

■ 28.8853, 32.4496,
20.0704

■ 4.1445, 2.6400,
15.6206

■ 33.1539, 37.5926,
20.8382

■ 3.5678, 1.9450,
15.5168

■ 37.8061, 43.1978,
21.6749

■ 3.1926, 1.4928,
15.4493

■ 42.8512, 49.2764,
22.5822

■ 2.9296, 1.1759,
15.4020

■ 48.2982, 55.8390,
23.5619

Harmonies

Analogous

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



12.4374, 13.2439, 17.3789



12.9451, 13.2439, 17.2033



13.3675, 13.2439, 16.2563

Triad

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



12.9451, 13.2439, 17.2033



13.2136, 13.2439, 12.3411



11.6431, 13.2439, 13.9918

Complementary

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



12.9451, 13.2439, 17.2033



14.8252, 15.9725, 14.6137

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.



11.8393, 13.2439, 12.7281



12.9451, 13.2439, 17.2033



12.7397, 13.2439, 11.8182

Square

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



12.9451, 13.2439, 17.2033



13.5254, 13.2439, 13.4305



12.2374, 13.2439, 11.9550



11.6948, 13.2439, 15.4577

Rectangle

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



12.9451, 13.2439, 17.2033



13.5394, 13.2439, 15.3480



12.2374, 13.2439, 11.9550



11.6821, 13.2439, 13.5309

Sweetspot

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



12.9455, 13.2445, 17.2036



25.6440, 26.7638, 30.7441



14.0756, 15.5210, 17.5300



6.0851, 6.3386, 7.3725



55.7959, 58.7016, 63.9261



6.5000, 6.8385, 7.4471

Same Dimension

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



12.9455, 13.2445, 17.2036



21.7337, 22.0524, 30.0408



13.5601, 13.5610, 17.2323



3.2176, 3.3006, 4.2217



3.3813, 1.3529, 17.8045



16.8431, 6.7380, 88.6920

Inverse Universe

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



13.6850, 13.6919, 14.2341



23.3364, 23.0221, 23.6052



14.1687, 15.6344, 14.5830



3.3845, 3.4015, 3.5516



7.7251, 3.9824, 0.3621



38.4816, 19.8379, 1.8022

Previews

White Background



This preview shows how the XYZ color 12.9451, 13.2439, 17.2033 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 XYZ color 12.9451, 13.2439, 17.2033 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

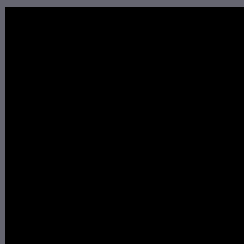
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

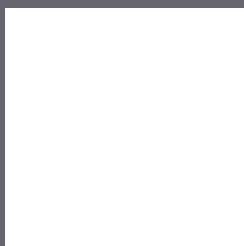
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.9451, 13.2439, 17.2033

Background



This preview shows how black text looks on a background with the XYZ color 12.9451, 13.2439, 17.2033.



This preview shows how white text looks on a background with the XYZ color 12.9451, 13.2439,

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

12.9451, 13.2439, 17.2033

Protanopia

12.9451, 13.2439, 17.2033

Deuteranopia

13.4499, 13.2193, 17.1719



Tritanopia

12.7808, 13.1782, 16.3380

Trichromacy



Original Color

12.9451, 13.2439, 17.2033

Protanomaly

12.9451, 13.2439, 17.2033

Deuteranomaly

13.3075, 13.2875, 17.1926

Tritanomaly

12.8350, 13.1999, 16.6232

Monochromacy



Original Color

12.9451, 13.2439, 17.2033

Achromatopsia

12.6291, 13.2868, 14.4694

Achromatomaly

12.8324, 13.3681, 15.5396

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9451, 13.2439, 17.2033 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(101, 101, 112)` looks like.

```
.text, #text, p{  
    color:rgb(101, 101, 112)  
}
```

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(101, 101, 112) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(101, 101, 112) }
```

Border

The CSS property to change the border of an element to XYZ 12.9451, 13.2439, 17.2033 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(101, 101, 112) }
```


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

```
.border{ border-color:rgb(101, 101, 112) }
```

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

Here you see how a box with a 4 pixel `rgb(101, 101, 112)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(101, 101, 112); -webkit-box-  
shadow:4px 4px 4px 4px rgb(101, 101, 112);  
box-shadow:4px 4px 4px 4px rgb(101, 101,  
112) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9451, 13.2439, 17.2033 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(101, 101, 112) }
```

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

```
.background{ background-color: rgb(101,  
101, 112) }
```

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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