

Converting Colors

XYZ(12.8117, 13.3594, 16.7708)

Have a look what the booklet for
XYZ(12.8117, 13.3594, 16.7708)
contains.

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Color

**XYZ(12.8214, 13.3379,
16.6506)**

Conversions

Conversions Part 1

Format	Color
Hex	64666E
RGB	100, 102, 110
RGB Percent	39%, 40%, 43%
CMY	0.6078, 0.6000, 0.5686
CMYK	0.09, 0.07, 0.00, 0.57
HSL	228°, 5%, 41%
HSV	228°, 9%, 43%
XYZ	12.8214, 13.3379, 16.6506
YIQ	102.3140, -3.7600, 2.0640

Conversions

Conversions Part 2

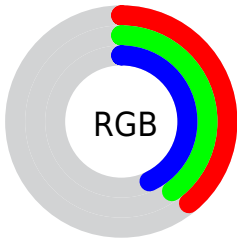
Format	Color
R_{YB}	100, 102, 110
Decimal	6579822
CIE Lab	43.27, 0.96, -4.77
CIE LCh	43, 4.862, 281.442
Yxy	13.3379, 0.2995, 0.3116
Android (android.graphics.Color)	4284769902 (0xFF64666E)
YUV	102.3140, 3.7892, -2.0294
Hunter-Lab	36.5211, -1.2462, -1.4666

Details

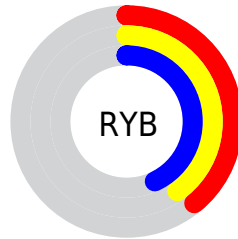
The XYZ color **12.8214, 13.3379, 16.6506** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **14.0933, 14.9601, 14.2016**, and the grayscale version is **12.7029, 13.3645, 14.5539**.

A 20% lighter version of the original color is **30.6753, 31.9704, 38.7366**, and **3.7039, 3.8371, 5.1028** is the 20% darker color. If you saturate the color by 10%, you get **10.8668, 11.1144, 16.3246**, and if you desaturate by 10%, it is **15.0329, 15.8308, 17.0154**.

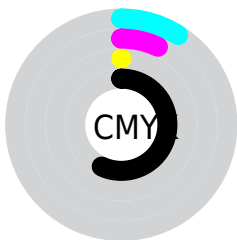
Distribution



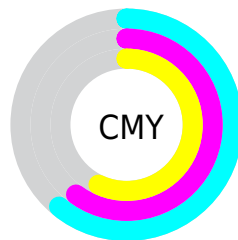
- Red (39%)
- Green (40%)
- Blue (43%)



- Red (39%)
- Yellow (40%)
- Blue (43%)



- Cyan (9%)
- Magenta (7%)
- Yellow (0%)
- Black (57%)



- Cyan (61%)
- Magenta (60%)
- Yellow (57%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8214, 13.3379, 16.6506 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 12.8214, 13.3379, 16.6506 by changing the saturation by 10% instead.

■ 12.8214, 13.3379,
16.6506

■ 12.8214, 13.3379,
16.6506

203.4307,
213.0720, 245.1262

■ 7.3818, 7.6616,
9.8264

■ 30.5866, 31.9095,
38.5064

■ 3.7505, 3.8792,
5.1799

■ 43.6429, 45.5737,
54.3751

■ 1.5620, 1.6062,
2.2926

■ 59.9689, 62.6692,
74.0957

■ 0.3674, 0.3618,
0.7271

■ 79.9299, 83.5806,
98.0868

■ 0.0000, 0.0000,
0.0000

103.8912,
108.6921, 126.7668

132.2182,

138.3883, 160.5543

165.2762,
173.0535, 199.8679

■ 12.8214, 13.3379,
16.6506

■ 12.8214, 13.3379,
16.6506

■ 10.8668, 11.1144,
16.3246

■ 15.0329, 15.8308,
17.0154

■ 9.1584, 9.1495,
16.0354

■ 17.5090, 18.6001,
17.4195

■ 7.6868, 7.4342,
15.7819

■ 20.2586, 21.6546,
17.8641

■ 6.4413, 5.9584,
15.5627

■ 23.2898, 25.0021,
18.3505

■ 5.4104, 4.7111,
15.3763

■ 26.6102, 28.6502,
18.8796

■ 4.5815, 3.6805,
15.2210

■ 30.2273, 32.6062,
19.4526

■ 3.9408, 2.8538,
15.0952

■ 34.1484, 36.8773,
20.0703

■ 3.4724, 2.2165,
14.9969

■ 38.3803, 41.4701,
20.7338

■ 3.1299, 1.7379,
14.9226

■ 42.9298, 46.3914,
21.4439

Harmonies

Analogous

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



12.4483, 13.3379, 16.5778



12.8214, 13.3379, 16.6506



13.1624, 13.3379, 16.1327

Triad

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



12.8214, 13.3379, 16.6506



13.2276, 13.3379, 13.1935



12.0034, 13.3379, 13.8729

Complementary

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



12.8214, 13.3379, 16.6506



14.0933, 14.9601, 14.2016

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.



12.2042, 13.3379, 13.0236



12.8214, 13.3379, 16.6506



12.9090, 13.3379, 12.6449

Square

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



12.8214, 13.3379, 16.6506



13.4000, 13.3379, 14.1154



12.5342, 13.3379, 12.5843



11.9810, 13.3379, 14.9378

Rectangle

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



12.8214, 13.3379, 16.6506



13.3237, 13.3379, 15.5363



12.5342, 13.3379, 12.5843



12.0521, 13.3379, 13.5541

Sweetspot

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



12.8218, 13.3385, 16.6509



24.7964, 25.9981, 29.6185



13.5296, 14.9406, 16.3119



5.7075, 5.9792, 6.8820



54.2243, 57.0482, 62.1254



6.0569, 6.3724, 6.9395

Same Dimension

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



12.8218, 13.3385, 16.6509



21.7230, 22.5244, 29.1100



12.9463, 13.1141, 16.6010



3.2667, 3.3987, 4.2381



3.7075, 2.0053, 17.9133



17.9625, 8.9769, 89.0651

Inverse Universe

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



13.3862, 13.3889, 14.4499



22.9395, 22.6424, 24.3638



13.9599, 15.2084, 14.2566



3.4093, 3.4114, 3.6821



7.8897, 4.0483, 1.2292



39.0466, 20.0640, 4.7777

Previews

White Background



This preview shows how the XYZ color 12.8214, 13.3379, 16.6506 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 12.8214, 13.3379, 16.6506 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

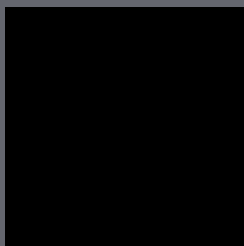
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

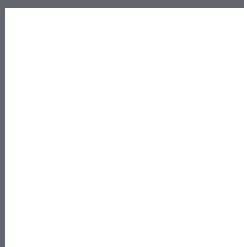
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.8214, 13.3379, 16.6506

Background



This preview shows how black text looks on a background with the XYZ color 12.8214, 13.3379, 16.6506.



This preview shows how white text looks on a background with the XYZ color 12.8214, 13.3379,

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

12.8214, 13.3379, 16.6506

Protanopia

12.9476, 13.2579, 16.6285

Deuteranopia

13.5154, 13.2595, 16.8859



Tritanopia

12.8214, 13.3379, 16.6506

Trichromacy



Original Color

12.8214, 13.3379, 16.6506

Protanomaly

12.8350, 13.1999, 16.6232

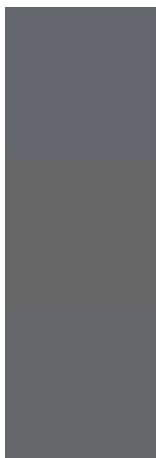
Deuteranomaly

13.2521, 13.2653, 16.9009

Tritanomaly

12.8214, 13.3379, 16.6506

Monochromacy



Original Color

12.8214, 13.3379, 16.6506

Achromatopsia

12.6291, 13.2868, 14.4694

Achromatomaly

12.6680, 13.2894, 15.2620

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8214, 13.3379, 16.6506 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(100, 102, 110)` looks like.

```
.text, #text, p{  
    color:rgb(100, 102, 110)  
}
```

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(100, 102, 110) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 102, 110) }
```

Border

The CSS property to change the border of an element to XYZ 12.8214, 13.3379, 16.6506 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(100, 102, 110) }
```


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

```
.border{ border-color:rgb(100, 102, 110) }
```

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

Here you see how a box with a 4 pixel `rgb(100, 102, 110)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 102, 110); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 102, 110);  
box-shadow:4px 4px 4px 4px rgb(100, 102,  
110) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8214, 13.3379, 16.6506 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 102, 110) }
```

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

```
.background{ background-color: rgb(100,  
102, 110) }
```

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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