

Converting Colors

XYZ(12.2992, 12.9429, 13.3855)

Have a look what the booklet for
XYZ(12.2992, 12.9429, 13.3855)
contains.

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Color

**XYZ(12.3378, 13.0140,
13.4170)**

Conversions

Conversions Part 1

Format	Color
Hex	666562
RGB	102, 101, 98
RGB Percent	40%, 40%, 38%
CMY	0.6000, 0.6039, 0.6157
CMYK	0.00, 0.01, 0.04, 0.60
HSL	45°, 2%, 39%
HSV	45°, 4%, 40%
XYZ	12.3378, 13.0140, 13.4170
YIQ	100.9570, 1.5590, -0.7210

Conversions

Conversions Part 2

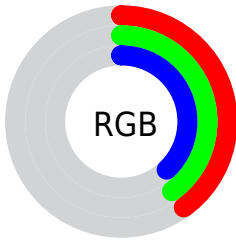
Format	Color
R_{YB}	99, 102, 98
Decimal	6710626
CIE _{Lab}	42.78, -0.22, 1.83
CIE _{LCh}	43, 1.841, 96.740
Yxy	13.0140, 0.3182, 0.3357
Android (android.graphics.Color)	4284900706 (0xFF666562)
YUV	100.9570, -1.4578, 0.9147
Hunter-Lab	36.0749, -2.0832, 3.2013

Details

The XYZ color **12.3378, 13.0140, 13.4170** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **11.8972, 12.4795, 14.3523**, and the grayscale version is **12.3622, 13.0060, 14.1636**.

A 20% lighter version of the original color is **29.7899, 31.3987, 32.9242**, and **3.5145, 3.6985, 3.7775** is the 20% darker color. If you saturate the color by 10%, you get **11.6434, 12.3473, 10.9589**, and if you desaturate by 10%, it is **13.1020, 13.7217, 16.2015**.

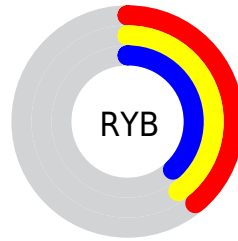
Distribution



Red (40%)

Green (40%)

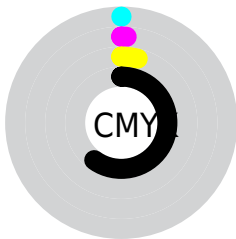
Blue (38%)



Red (39%)

Yellow (40%)

Blue (38%)

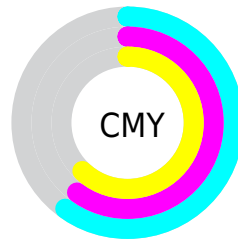


Cyan (0%)

Magenta (1%)

Yellow (4%)

Black (60%)



Cyan (60%)

Magenta (60%)

Yellow (62%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.3378, 13.0140, 13.4170 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 12.3378, 13.0140, 13.4170 by changing the saturation by 10% instead.

■ 12.3378, 13.0140,
13.4170

■ 12.3378, 13.0140,
13.4170

200.3535,
211.0074, 224.8740

■ 7.0480, 7.4382,
7.5822

■ 29.7204, 31.3289,
32.7530

■ 3.5387, 3.7376,
3.7449

■ 42.5439, 44.8368,
47.0914

■ 1.4446, 1.5279,
1.4865

■ 58.6094, 61.7576,
65.1013

■ 0.2877, 0.3082,
0.2078

■ 78.2822, 82.4755,
87.2014

■ 0.0000, 0.0000,
0.0000

101.9276,
107.3751, 113.8102

129.9111,

136.8406, 145.3462

162.5980,
171.2566, 182.2280

■ 12.3378, 13.0140,
13.4170

■ 12.3378, 13.0140,
13.4170

■ 11.6434, 12.3473,
10.9589

■ 13.1020, 13.7217,
16.2015

■ 11.0153, 11.7189,
8.8143

■ 13.9371, 14.4697,
19.3231

■ 10.4514, 11.1282,
6.9705

■ 14.8457, 15.2595,
22.7931

■ 9.9490, 10.5740,
5.4138

■ 15.8298, 16.0921,
26.6218

■ 9.5051, 10.0550,
4.1292

■ 16.8913, 16.9684,
30.8193

■ 9.1167, 9.5699,
3.1006

■ 18.0321, 17.8891,
35.3951

■ 8.7803, 9.1171,
2.3098

■ 19.2541, 18.8552,
40.3587

■ 8.4919, 8.6950,
1.7368

■ 20.5590, 19.8675,
45.7187

■ 8.2447, 8.3008,
1.3457

■ 21.9485, 20.9266,
51.4840

Harmonies

Analogous

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



12.4762, 13.0140, 13.4724



12.3378, 13.0140, 13.4170



12.2088, 13.0140, 13.5603

Triad

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



12.3378, 13.0140, 13.4170



12.1546, 13.0140, 14.6369



12.6188, 13.0140, 14.4771

Complementary

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



12.3378, 13.0140, 13.4170



11.8972, 12.4795, 14.3523

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.



12.5314, 13.0140, 14.7978



12.3378, 13.0140, 13.4170



12.2633, 13.0140, 14.8913

Square

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



12.3378, 13.0140, 13.4170



12.1036, 13.0140, 14.2609



12.4011, 13.0140, 14.9507



12.6391, 13.0140, 14.0796

Rectangle

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



12.3378, 13.0140, 13.4170



12.1453, 13.0140, 13.7508



12.4011, 13.0140, 14.9507



12.5962, 13.0140, 14.5977

Sweetspot

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



12.3382, 13.0146, 13.4173



22.0130, 23.1758, 24.8834



12.0995, 12.4612, 13.5722



5.1958, 5.4700, 5.8803



51.1593, 53.8236, 58.6138



5.2251, 5.4972, 5.9864

Same Dimension

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



12.3382, 13.0146, 13.4173



21.4828, 22.6776, 22.9735



12.3230, 13.1515, 13.4445



3.0482, 3.2182, 3.2503



10.3745, 10.3020, 1.4417



53.3910, 52.2958, 7.2801

Inverse Universe

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



11.8972, 12.4795, 14.3523



20.4761, 21.4563, 25.1080



11.9118, 12.3476, 14.3261



2.8996, 3.0378, 3.5655



3.5106, 2.0929, 16.3633



17.7041, 9.7048, 85.1415

Previews

White Background



This preview shows how the XYZ color 12.3378, 13.0140, 13.4170 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 12.3378, 13.0140, 13.4170 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

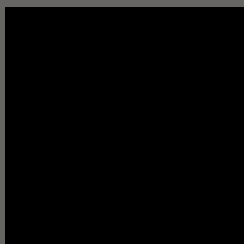
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

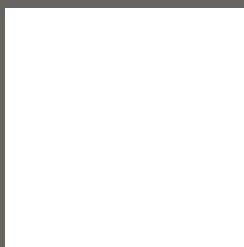
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.3378, 13.0140, 13.4170

Background



This preview shows how black text looks on a background with the XYZ color 12.3378, 13.0140, 13.4170.

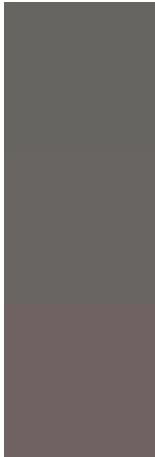


This preview shows how white text looks on a background with the XYZ color 12.3378, 13.0140,

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

12.3378, 13.0140, 13.4170

Protanopia

12.5672, 13.1323, 13.4277

Deuteranopia

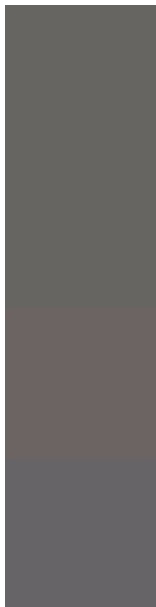
13.3019, 13.0810, 13.6282



Tritanopia

12.8045, 13.0594, 15.7558

Trichromacy



Original Color

12.3378, 13.0140, 13.4170

Protanomaly

12.4518, 13.0728, 13.4223

Deuteranomaly

12.8983, 13.0127, 13.6363

Tritanomaly

12.6494, 12.9974, 14.9388

Monochromacy



Original Color

12.3378, 13.0140, 13.4170

Achromatopsia

12.3695, 13.0136, 14.1719

Achromatomaly

12.3208, 12.9942, 13.9153

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3378, 13.0140, 13.4170 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(102, 101, 98)` looks like.

```
.text, #text, p{  
    color:rgb(102, 101, 98)  
}
```

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(102, 101, 98) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 101, 98) }
```

Border

The CSS property to change the border of an element to XYZ 12.3378, 13.0140, 13.4170 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(102, 101, 98) }
```


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

```
.border{ border-color:rgb(102, 101, 98) }
```

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

Here you see how a box with a 4 pixel rgb(102, 101, 98) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 101, 98); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 101, 98);  
box-shadow:4px 4px 4px 4px rgb(102, 101,  
98) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3378, 13.0140, 13.4170 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 101, 98) }
```

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

```
.background{ background-color: rgb(102,  
101, 98) }
```

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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