

Converting Colors

XYZ(12.3336, 12.8517, 13.8897)

Have a look what the booklet for
XYZ(12.3336, 12.8517, 13.8897)
contains.

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Color

**XYZ(12.3369, 12.8592,
13.8884)**

Conversions

Conversions Part 1

Format	Color
Hex	666464
RGB	102, 100, 100
RGB Percent	40%, 39%, 39%
CMY	0.6000, 0.6078, 0.6078
CMYK	0.00, 0.02, 0.02, 0.60
HSL	0°, 1%, 40%
HSV	0°, 2%, 40%
XYZ	12.3369, 12.8592, 13.8884
YIQ	100.5980, 1.1920, 0.4240

Conversions

Conversions Part 2

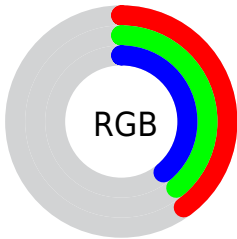
Format	Color
R_{YB}	102, 100, 100
Decimal	6710372
CIE Lab	42.55, 0.79, 0.27
CIE LCh	43, 0.832, 19.112
Yxy	12.8592, 0.3156, 0.3290
Android (android.graphics.Color)	4284900452 (0xFF666464)
YUV	100.5980, -0.2948, 1.2296
Hunter-Lab	35.8597, -1.3448, 2.1389

Details

The XYZ color **12.3369, 12.8592, 13.8884** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **12.4052, 13.1712, 14.4590**, and the grayscale version is **12.2669, 12.9058, 14.0544**.

A 20% lighter version of the original color is **29.7894, 31.1399, 33.7187**, and **3.4913, 3.6155, 3.8820** is the 20% darker color. If you saturate the color by 10%, you get **10.9569, 10.8403, 11.1433**, and if you desaturate by 10%, it is **13.9018, 15.1485, 17.0005**.

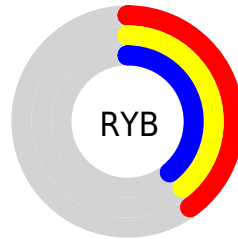
Distribution



Red (40%)

Green (39%)

Blue (39%)



Red (40%)

Yellow (39%)

Blue (39%)

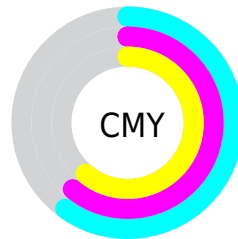


Cyan (0%)

Magenta (2%)

Yellow (2%)

Black (60%)



Cyan (60%)

Magenta (61%)

Yellow (61%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.3369, 12.8592, 13.8884 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 12.3369, 12.8592, 13.8884 by changing the saturation by 10% instead.

■ 12.3369, 12.8592,
13.8884

■ 12.3369, 12.8592,
13.8884

200.3478,
210.0133, 227.9397

■ 7.0474, 7.3317,
7.9052

■ 29.7188, 31.0506,
33.6052

■ 3.5383, 3.6704,
3.9475

■ 42.5419, 44.4832,
48.1758

■ 1.4444, 1.4909,
1.5966

■ 58.6069, 61.3197,
66.4460

■ 0.2876, 0.2823,
0.2884

■ 78.2791, 81.9444,
88.8344

■ 0.0000, 0.0000,
0.0000

101.9240,
106.7417, 115.7594

129.9068,

136.0961, 147.6396

162.5929,
170.3918, 184.8935

■ 12.3369, 12.8592,
13.8884

■ 12.3369, 12.8592,
13.8884

■ 10.9569, 10.8403,
11.1433

■ 13.9018, 15.1485,
17.0005

■ 9.7538, 9.0802,
8.7508

■ 15.6568, 17.7160,
20.4914

■ 8.7210, 7.5690,
6.6969

■ 17.6085, 20.5711,
24.3737

■ 7.8506, 6.2954,
4.9663

■ 19.7626, 23.7223,
28.6590

■ 7.1344, 5.2474,
3.5426

■ 22.1249, 27.1779,
33.3583

■ 6.5634, 4.4118,
2.4078

■ 24.7006, 30.9456,
38.4825

■ 6.1277, 3.7742,
1.5422

■ 27.4950, 35.0332,
44.0418

■ 5.8162, 3.3181,
0.9235

■ 30.5130, 39.4479,
50.0462

■ 5.6145, 3.0227,
0.5230

■ 33.7594, 44.1967,
56.5053

Harmonies

Analogous

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



12.3414, 12.8592, 14.0670



12.3369, 12.8592, 13.8884



12.3016, 12.8592, 13.7413

Triad

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



12.3369, 12.8592, 13.8884



12.1311, 12.8592, 13.7760



12.1995, 12.8592, 14.3443

Complementary

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



12.3369, 12.8592, 13.8884



12.4052, 13.1712, 14.4590

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.



12.1433, 12.8592, 14.2649



12.3369, 12.8592, 13.8884



12.1039, 12.8592, 13.9362

Square

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



12.3369, 12.8592, 13.8884



12.1827, 12.8592, 13.6768



12.1084, 12.8592, 14.1152



12.2619, 12.8592, 14.3313

Rectangle

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



12.3369, 12.8592, 13.8884



12.2655, 12.8592, 13.6804



12.1084, 12.8592, 14.1152



12.1792, 12.8592, 14.3275

Sweetspot

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



12.3373, 12.8598, 13.8887



21.8785, 22.9068, 24.8386



12.4351, 12.8986, 14.4048



5.1668, 5.4120, 5.8706



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.



12.3373, 12.8598, 13.8887



21.6117, 22.5165, 24.3079



12.4336, 13.0524, 13.9208



3.0803, 3.2135, 3.4733



7.0386, 3.6303, 0.3297



36.7063, 18.9265, 1.7185

Inverse Universe

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



12.4052, 13.1712, 14.4590



21.7365, 23.0892, 25.3567



12.3077, 12.9762, 14.4265



3.0957, 3.2842, 3.6027



9.1701, 13.4120, 18.2498



47.8231, 69.9429, 95.1812

Previews

White Background



This preview shows how the XYZ color 12.3369, 12.8592, 13.8884 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 12.3369, 12.8592, 13.8884 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

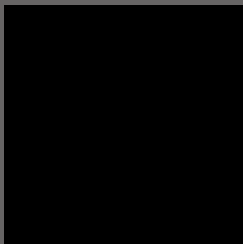
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

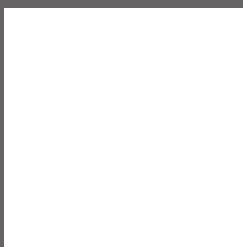
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.3369, 12.8592, 13.8884

Background



This preview shows how black text looks on a background with the XYZ color 12.3369, 12.8592, 13.8884.



This preview shows how white text looks on a background with the XYZ color 12.3369, 12.8592,

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

12.3369, 12.8592, 13.8884

Protanopia

12.3369, 12.8592, 13.8884

Deuteranopia

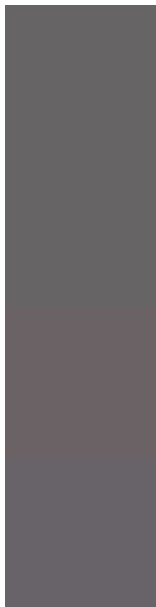
13.0541, 12.8040, 14.0953



Tritanopia

12.7092, 12.8688, 15.7240

Trichromacy



Original Color

12.3369, 12.8592, 13.8884

Protanomaly

12.3369, 12.8592, 13.8884

Deuteranomaly

12.7801, 12.8008, 14.1091

Tritanomaly

12.5540, 12.8067, 14.9070

Monochromacy



Original Color

12.3369, 12.8592, 13.8884

Achromatopsia

12.3695, 13.0136, 14.1719

Achromatomaly

12.3695, 13.0136, 14.1719

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3369, 12.8592, 13.8884 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, 100, 100)` looks like.

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

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, 100, 100) colored shadow looks like.

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

Border

The CSS property to change the border of an element to XYZ 12.3369, 12.8592, 13.8884 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, 100, 100) }
```


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

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

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

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

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

Background

The CSS property to change the background color of an element to XYZ 12.3369, 12.8592, 13.8884 is called "background". The background property can be set on classes, ids or directly on the HTML element.

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

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

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

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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