

Converting Colors

XYZ(12.2872, 12.9420, 14.4208)

Have a look what the booklet for
XYZ(12.2872, 12.9420, 14.4208)
contains.

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Color

**XYZ(12.3075, 12.9760,
14.4263)**

Conversions

Conversions Part 1

Format	Color
Hex	646566
RGB	100, 101, 102
RGB Percent	39%, 40%, 40%
CMY	0.6078, 0.6039, 0.6000
CMYK	0.02, 0.01, 0.00, 0.60
HSL	210°, 1%, 40%
HSV	210°, 2%, 40%
XYZ	12.3075, 12.9760, 14.4263
YIQ	100.8150, -0.9170, 0.0990

Conversions

Conversions Part 2

Format	Color
R_{YB}	100, 101, 102
Decimal	6579558
CIE Lab	42.73, -0.18, -0.71
CIE LCh	43, 0.728, 255.956
Yxy	12.9760, 0.3099, 0.3268
Android (android.graphics.Color)	4284769638 (0xFF646566)
YUV	100.8150, 0.5842, -0.7148
Hunter-Lab	36.0222, -2.0518, 1.4709

Details

The XYZ color **12.3075, 12.9760, 14.4263** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **12.4335, 13.0521, 13.9208**, and the grayscale version is **12.3210, 12.9626, 14.1163**.

A 20% lighter version of the original color is **29.7405, 31.3357, 34.6179**, and **3.4770, 3.6711, 4.1398** is the 20% darker color. If you saturate the color by 10%, you get **10.7702, 11.4726, 14.2173**, and if you desaturate by 10%, it is **14.0175, 14.6147, 14.6527**.

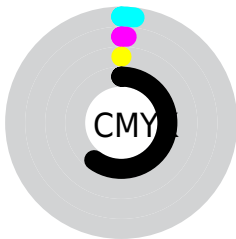
Distribution



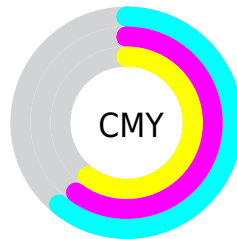
- Red (39%)
- Green (40%)
- Blue (40%)



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



- Cyan (2%)
- Magenta (1%)
- Yellow (0%)
- Black (60%)



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

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.3075, 12.9760, 14.4263 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 12.3075, 12.9760, 14.4263 by changing the saturation by 10% instead.

■ 12.3075, 12.9760,
14.4263

■ 12.3075, 12.9760,
14.4263

200.1591,
210.7638, 231.3869

■ 7.0271, 7.4120,
8.2756

■ 29.6659, 31.2607,
34.5715

■ 3.5256, 3.7211,
4.1815

■ 42.4748, 44.7501,
49.4031

■ 1.4374, 1.5188,
1.7254

■ 58.5238, 61.6502,
67.9654

■ 0.2826, 0.3019,
0.3781

■ 78.1783, 82.3453,
90.6770

■ 0.0000, 0.0000,
0.0000

101.8038,
107.2198, 117.9564

129.7655,

136.6582, 150.2222

162.4288,
171.0447, 187.8928

■ 12.3075, 12.9760,
14.4263

■ 12.3075, 12.9760,
14.4263

■ 10.7702, 11.4726,
14.2173

■ 14.0175, 14.6147,
14.6527

■ 9.3987, 10.0989,
14.0245

■ 15.9045, 16.3905,
14.8960

■ 8.1872, 8.8516,
13.8476

■ 17.9740, 18.3075,
15.1569

■ 7.1294, 7.7264,
13.6861

■ 20.2312, 20.3689,
15.4359

■ 6.2182, 6.7188,
13.5397

■ 22.6807, 22.5782,
15.7332

■ 5.4462, 5.8242,
13.4077

■ 25.3273, 24.9382,
16.0492

■ 4.8050, 5.0372,
13.2896

■ 28.1753, 27.4520,
16.3843

■ 4.2855, 4.3521,
13.1847

■ 31.2291, 30.1226,
16.7389

■ 3.8757, 3.7618,
13.0924

■ 34.4928, 32.9528,
17.1131

Harmonies

Analogous

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



12.2595, 12.9760, 14.3488



12.3075, 12.9760, 14.4263



12.3626, 12.9760, 14.4236

Triad

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



12.3075, 12.9760, 14.4263



12.4359, 12.9760, 14.0451



12.2570, 12.9760, 13.9179

Complementary

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



12.3075, 12.9760, 14.4263



12.4335, 13.0521, 13.9208

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.



12.3041, 12.9760, 13.8377



12.3075, 12.9760, 14.4263



12.4074, 12.9760, 13.9108

Square

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



12.3075, 12.9760, 14.4263



12.4368, 12.9760, 14.2027



12.3591, 12.9760, 13.8351



12.2304, 12.9760, 14.0548

Rectangle

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



12.3075, 12.9760, 14.4263



12.3959, 12.9760, 14.3767



12.3591, 12.9760, 13.8351



12.2709, 12.9760, 13.8835

Sweetspot

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



12.3079, 12.9766, 14.4266



21.8515, 23.0154, 25.3364



12.3544, 13.1512, 14.1909



5.1610, 5.4354, 5.9779



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.



12.3079, 12.9766, 14.4266



21.5574, 22.7310, 25.2970



12.2144, 12.7896, 14.3954



3.0737, 3.2400, 3.5954



4.5668, 4.2053, 16.7153



22.9424, 20.1814, 86.8876

Inverse Universe

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



12.3859, 12.8790, 14.1457



21.7010, 22.5517, 24.7802



12.5280, 13.2413, 13.9524



3.0914, 3.2179, 3.5316



7.7878, 3.9281, 4.2808



40.1754, 20.3102, 19.9989

Previews

White Background



This preview shows how the XYZ color 12.3075, 12.9760, 14.4263 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 12.3075, 12.9760, 14.4263 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

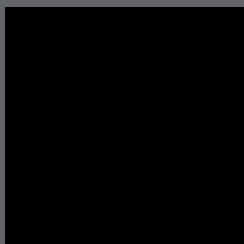
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

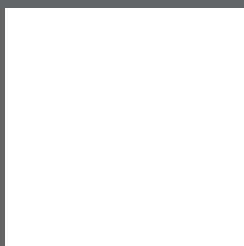
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.3075, 12.9760, 14.4263

Background



This preview shows how black text looks on a background with the XYZ color 12.3075, 12.9760, 14.4263.



This preview shows how white text looks on a background with the XYZ color 12.3075, 12.9760,

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

12.3075, 12.9760, 14.4263

Protanopia

12.4349, 12.8984, 14.4046

Deuteranopia

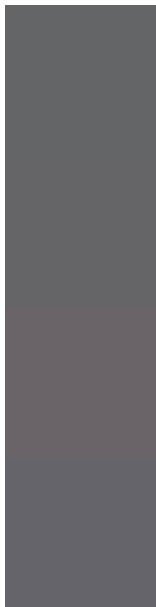
13.2463, 13.0296, 14.6488



Tritanopia

12.6308, 12.9638, 16.0239

Trichromacy



Original Color

12.3075, 12.9760, 14.4263

Protanomaly

12.3223, 12.8404, 14.3994

Deuteranomaly

12.8539, 12.9671, 14.6574

Tritanomaly

12.5255, 12.9217, 15.4696

Monochromacy



Original Color

12.3075, 12.9760, 14.4263

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 12.3075, 12.9760, 14.4263 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, 101, 102)` looks like.

```
.text, #text, p{  
    color:rgb(100, 101, 102)  
}
```

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, 101, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 101, 102) }
```

Border

The CSS property to change the border of an element to XYZ 12.3075, 12.9760, 14.4263 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, 101, 102) }
```


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

```
.border{ border-color:rgb(100, 101, 102) }
```

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

Here you see how a box with a 4 pixel `rgb(100, 101, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 101, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 101, 102);  
box-shadow:4px 4px 4px 4px rgb(100, 101,  
102) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3075, 12.9760, 14.4263 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 101, 102) }
```

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

```
.background{ background-color: rgb(100,  
101, 102) }
```

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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