

Converting Colors

XYZ(12.0256, 6.6127, 57.7693)

Have a look what the booklet for
XYZ(12.0256, 6.6127, 57.7693)
contains.

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Color

**XYZ(12.0397, 6.6408,
57.7740)**

Conversions

Conversions Part 1

Format	Color
Hex	0032CC
RGB	0, 50, 204
RGB Percent	0%, 20%, 80%
CMY	0.9998, 0.8039, 0.2000
CMYK	1.00, 0.75, 0.00, 0.20
HSL	225°, 100%, 40%
HSV	225°, 100%, 80%
XYZ	12.0397, 6.6408, 57.7740
YIQ	52.6060, -79.2340, 37.2940

Conversions

Conversions Part 2

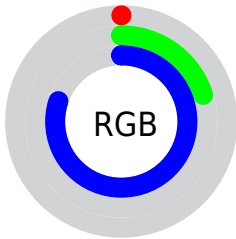
Format	Color
RYB	0, 40, 204
Decimal	13004
CIELab	30.97, 48.63, -80.92
CIElCh	31, 94.413, 301.004
Yxy	6.6408, 0.1575, 0.0869
Android (android.graphics.Color)	4278203084 (0xFF0032CC)
YUV	52.6060, 74.6372, -46.1355
Hunter-Lab	25.7697, 38.2986, -114.8853

Details

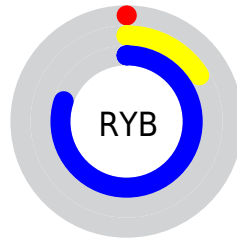
The XYZ color **12.0397, 6.6408, 57.7740** is a dark color, and the websafe version is hex **0033CC**. The color can be described as dark washed blue. A complement of this color would be **36.4666, 35.9664, 5.0216**, and the grayscale version is **3.2584, 3.4281, 3.7332**.

A 20% lighter version of the original color is **28.0112, 18.8389, 96.7677**, and **5.4213, 2.2901, 28.1733** is the 20% darker color. If you saturate the color by 10%, you get **12.0380, 6.6374, 57.7737**, and if you desaturate by 10%, it is **13.1102, 8.3399, 58.0458**.

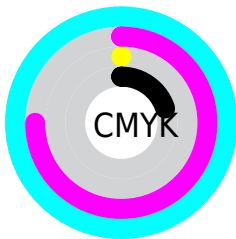
Distribution



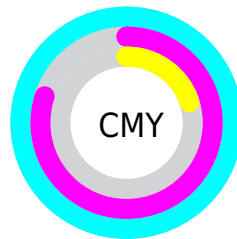
- Red (0%)
- Green (20%)
- Blue (80%)



- Red (0%)
- Yellow (16%)
- Blue (80%)



- Cyan (100%)
- Magenta (75%)
- Yellow (0%)
- Black (20%)



- Cyan (100%)
- Magenta (80%)
- Yellow (20%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.0397, 6.6408, 57.7740 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 12.0397, 6.6408, 57.7740 by changing the saturation by 10% instead.

■ 12.0397, 6.6408,
57.7740

■ 12.0397, 6.6408,
57.7740

198.4325,
164.6448, 433.9180

■ 6.8431, 3.2385,
41.2135

■ 29.1836, 19.2469,
103.1052

■ 3.4096, 1.2575,
28.1650

■ 41.8617, 29.2194,
132.7130

■ 1.3739, 0.1079,
18.2099

■ 57.7642, 42.1508,
167.5069

■ 0.2375, 0.0000,
10.9298

■ 77.2567, 58.4255,
207.9055

■ 0.0000, 0.0000,
5.9061

■ 100.7044, 78.4278,
254.3274

■ 0.0000, 0.0000,
2.7202

■ 128.4727,

■ 0.0000, 0.0000,

102.5422, 307.1911

0.9536

160.9269,
131.1531, 366.9151

■ 0.0000, 0.0000,
0.0000

■ 12.0397, 6.6408,
57.7740

■ 12.0397, 6.6408,
57.7740

■ 12.0380, 6.6374,
57.7737

■ 13.1102, 8.3399,
58.0458

■ 14.7355, 10.6838,
58.4125

■ 17.0409, 13.7636,
58.8855

■ 20.0999, 17.6409,
59.4727

■ 23.9758, 22.3705,
60.1813

■ 28.7248, 28.0017,
61.0179

■ 34.3979, 34.5800,
61.9886

■ 41.0422, 42.1478,
63.0992

■ 48.7013, 50.7445,
64.3548

Harmonies

Analogous

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



6.4678, 6.6408, 73.4308



12.0397, 6.6408, 57.7740



17.6124, 6.6408, 27.7199

Triad

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



12.0397, 6.6408, 57.7740



11.6323, 6.6408, 0.0000



0.9600, 6.6408, 7.6828

Complementary

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



12.0397, 6.6408, 57.7740



36.4666, 35.9664, 5.0216

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.



1.3106, 6.6408, 0.5340



12.0397, 6.6408, 57.7740



6.1584, 6.6408, 0.0000

Square

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



12.0397, 6.6408, 57.7740



17.3075, 6.6408, 0.3337



2.7688, 6.6408, 0.0000



1.3656, 6.6408, 29.6423

Rectangle

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



12.0397, 6.6408, 57.7740



19.6657, 6.6408, 11.9493



2.7688, 6.6408, 0.0000



0.9909, 6.6408, 3.9536

Sweetspot

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



12.0402, 6.6409, 57.7742



56.5446, 56.7834, 102.5878



27.3444, 45.4866, 37.4811



11.2088, 11.1221, 21.8060



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

Same Dimension

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



12.0402, 6.6409, 57.7742



19.7971, 10.7143, 95.6324



12.2668, 5.0655, 57.4582



10.8212, 11.2828, 14.1778



7.6389, 4.3018, 36.3840



0.4556, 0.3449, 1.8975

Inverse Universe

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



25.4781, 13.0688, 4.1969



42.1219, 21.6127, 6.5739



34.7325, 49.9596, 7.8140



11.3231, 11.2580, 12.2361



16.0667, 8.2373, 2.8038



0.8599, 0.4374, 0.3081

Previews

White Background



This preview shows how the XYZ color 12.0397, 6.6408, 57.7740 looks on a white background.

Color Contrast Check

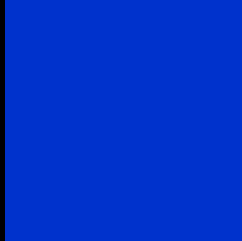
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



This preview shows how the XYZ color 12.0397, 6.6408, 57.7740 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

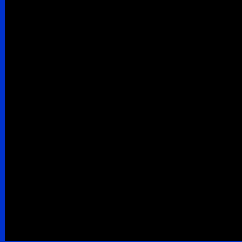
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.0397, 6.6408, 57.7740

Background



This preview shows how black text looks on a background with the XYZ color 12.0397, 6.6408, 57.7740.



This preview shows how white text looks on a background with the XYZ color 12.0397, 6.6408,

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

12.0397, 6.6408, 57.7740

Protanopia

7.5355, 6.5184, 28.8780

Deuteranopia

6.2820, 6.5385, 20.6696



Tritanopia

4.5821, 6.5407, 9.6153

Trichromacy



Original Color

12.0397, 6.6408, 57.7740

Protanomaly

8.8454, 6.3822, 37.8115

Deuteranomaly

7.7809, 6.2295, 31.3642

Tritanomaly

6.0864, 5.9388, 21.2476

Monochromacy



Original Color

12.0397, 6.6408, 57.7740

Achromatopsia

3.3839, 3.5601, 3.8770

Achromatomaly

4.5945, 3.8788, 14.6939

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.0397, 6.6408, 57.7740 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(0, 50, 204)` looks like.

```
.text, #text, p{  
    color:rgb(0, 50, 204)  
}
```

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(0, 50, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 50, 204) }
```

Border

The CSS property to change the border of an element to XYZ 12.0397, 6.6408, 57.7740 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(0, 50, 204) }
```


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

```
.border{ border-color:rgb(0, 50, 204) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 50, 204)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 50, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 50, 204);  
box-shadow:4px 4px 4px 4px rgb(0, 50, 204)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.0397, 6.6408, 57.7740 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 50, 204) }
```

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

```
.background{ background-color: rgb(0, 50,  
204) }
```

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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