

Converting Colors

XYZ(12.7193, 6.8436, 61.5654)

Have a look what the booklet for
XYZ(12.7193, 6.8436, 61.5654)
contains.

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Color

**XYZ(12.7312, 6.8498,
61.6239)**

Conversions

Conversions Part 1

Format	Color
Hex	0031D2
RGB	0, 49, 210
RGB Percent	0%, 19%, 82%
CMY	0.9998, 0.8079, 0.1765
CMYK	1.00, 0.77, 0.00, 0.18
HSL	226°, 100%, 41%
HSV	226°, 100%, 82%
XYZ	12.7312, 6.8498, 61.6239
YIQ	52.7030, -80.8850, 39.6830

Conversions

Conversions Part 2

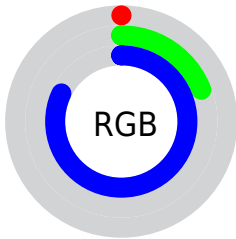
Format	Color
RYB	0, 40, 210
Decimal	12754
CIELab	31.46, 51.25, -83.60
CIELCh	31, 98.060, 301.508
Yxy	6.8498, 0.1568, 0.0844
Android (android.graphics.Color)	4278202834 (0xFF0031D2)
YUV	52.7030, 77.5474, -46.2205
Hunter-Lab	26.1721, 41.0285, -121.2815

Details

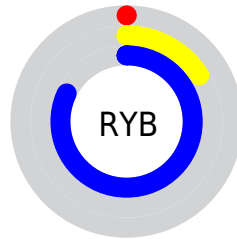
The XYZ color **12.7312, 6.8498, 61.6239** is a dark color, and the websafe version is hex **0033CC**. The color can be described as dark washed blue. A complement of this color would be **39.3331, 39.2105, 5.4968**, and the grayscale version is **3.2668, 3.4369, 3.7428**.

A 20% lighter version of the original color is **28.1504, 18.7726, 96.7475**, and **5.8870, 2.4416, 30.7329** is the 20% darker color. If you saturate the color by 10%, you get **12.7295, 6.8463, 61.6236**, and if you desaturate by 10%, it is **13.8394, 8.6054, 61.9046**.

Distribution



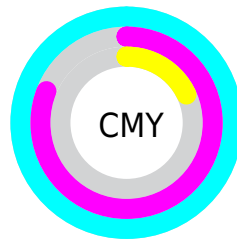
- Red (0%)
- Green (19%)
- Blue (82%)



- Red (0%)
- Yellow (16%)
- Blue (82%)



- Cyan (100%)
- Magenta (77%)
- Yellow (0%)
- Black (18%)



- Cyan (100%)
- Magenta (81%)
- Yellow (18%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.7312, 6.8498, 61.6239 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 12.7312, 6.8498, 61.6239 by changing the saturation by 10% instead.

■ 12.7312, 6.8498,
61.6239

■ 12.7312, 6.8498,
61.6239

202.8603,
166.4097, 448.5276

■ 7.3194, 3.3683,
44.2950

■ 30.4255, 19.6704,
108.7481

■ 3.7108, 1.3269,
30.5636

■ 43.4387, 29.7783,
139.3805

■ 1.5398, 0.1619,
20.0111

■ 59.7164, 42.8639,
175.2845

■ 0.3527, 0.0000,
12.2190

■ 79.6240, 59.3115,
216.8787

■ 0.0000, 0.0000,
6.7686

■ 103.5268, 79.5054,
264.5816

■ 0.0000, 0.0000,
3.2416

■ 131.7903,

■ 0.0000, 0.0000,

103.8302, 318.8116

1.2193

164.7796,
132.6702, 379.9875

■ 0.0000, 0.0000,
0.0000

■ 12.7312, 6.8498,
61.6239

■ 12.7312, 6.8498,
61.6239

■ 12.7295, 6.8463,
61.6236

■ 13.8394, 8.6054,
61.9046

■ 15.5475, 11.0619,
62.2887

■ 17.9894, 14.3183,
62.7886

■ 21.2450, 18.4431,
63.4132

■ 25.3833, 23.4969,
64.1705

■ 30.4654, 29.5342,
65.0680

■ 36.5469, 36.6053,
66.1123

■ 43.6790, 44.7571,
67.3099

■ 51.9091, 54.0331,
68.6666

Harmonies

Analogous

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



6.7600, 6.8498, 79.1877



12.7312, 6.8498, 61.6239



18.6915, 6.8498, 28.9532

Triad

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



12.7312, 6.8498, 61.6239



12.0755, 6.8498, 0.0000



0.9199, 6.8498, 8.1863

Complementary

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



12.7312, 6.8498, 61.6239



39.3331, 39.2105, 5.4968

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.



1.2620, 6.8498, 0.5221



12.7312, 6.8498, 61.6239



6.2673, 6.8498, 0.0000

Square

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



12.7312, 6.8498, 61.6239



18.1983, 6.8498, 0.2096



2.7411, 6.8498, 0.0000



1.3463, 6.8498, 32.0777

Rectangle

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



12.7312, 6.8498, 61.6239



20.8530, 6.8498, 12.1597



2.7411, 6.8498, 0.0000



0.9471, 6.8498, 4.1582

Sweetspot

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



12.7317, 6.8499, 61.6241



56.3406, 56.3753, 102.5198



29.4814, 48.6673, 41.5637



11.1617, 11.0279, 21.7903



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.



12.7317, 6.8499, 61.6241



19.6371, 10.3943, 95.5790



13.2664, 5.4961, 61.3346



11.3842, 11.8586, 14.9326



7.8292, 4.3050, 37.6108



0.5000, 0.3652, 2.1237

Inverse Universe

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



27.1333, 13.9245, 4.1630



42.0411, 21.5804, 6.1486



36.3760, 52.9649, 8.3075



11.9201, 11.8528, 12.8548



16.5825, 8.5059, 2.7078



0.9586, 0.4882, 0.3168

Previews

White Background



This preview shows how the XYZ color 12.7312, 6.8498, 61.6239 looks on a white background.

Color Contrast Check

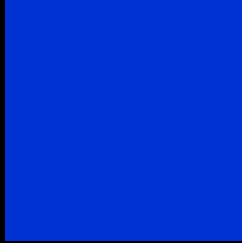
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.7312, 6.8498, 61.6239 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

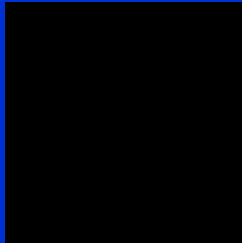
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.7312, 6.8498, 61.6239

Background



This preview shows how black text looks on a background with the XYZ color 12.7312, 6.8498, 61.6239.



This preview shows how white text looks on a background with the XYZ color 12.7312, 6.8498,

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

12.7312, 6.8498, 61.6239

Protanopia

7.7583, 6.7085, 29.7401

Deuteranopia

6.4807, 6.7274, 21.3790



Tritanopia

4.6970, 6.7065, 9.8510

Trichromacy



Original Color

12.7312, 6.8498, 61.6239

Protanomaly

9.2239, 6.5336, 39.8047

Deuteranomaly

8.1198, 6.3651, 33.1484

Tritanomaly

6.2869, 6.0190, 22.3032

Monochromacy



Original Color

12.7312, 6.8498, 61.6239

Achromatopsia

3.3839, 3.5601, 3.8770

Achromatomaly

4.7022, 3.9219, 15.2610

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7312, 6.8498, 61.6239 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, 49, 210)` looks like.

```
.text, #text, p{  
    color:rgb(0, 49, 210)  
}
```

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, 49, 210) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 49, 210) }
```

Border

The CSS property to change the border of an element to XYZ 12.7312, 6.8498, 61.6239 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, 49, 210) }
```


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

```
.border{ border-color:rgb(0, 49, 210) }
```

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

Here you see how a box with a 4 pixel rgb(0, 49, 210) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 49, 210); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 49, 210);  
box-shadow:4px 4px 4px 4px rgb(0, 49, 210)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.7312, 6.8498, 61.6239 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 49, 210) }
```

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

```
.background{ background-color: rgb(0, 49,  
210) }
```

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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