

Converting Colors

XYZ(12.9789, 6.4965, 64.3228)

Have a look what the booklet for
XYZ(12.9789, 6.4965, 64.3228)
contains.

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Color

**XYZ(12.9656, 6.5110,
64.1917)**

Conversions

Conversions Part 1

Format	Color
Hex	002AD6
RGB	0, 42, 214
RGB Percent	0%, 16%, 84%
CMY	0.9998, 0.8353, 0.1608
CMYK	1.00, 0.80, 0.00, 0.16
HSL	228°, 100%, 42%
HSV	228°, 100%, 84%
XYZ	12.9656, 6.5110, 64.1917
YIQ	49.0500, -80.2440, 44.5880

Conversions

Conversions Part 2

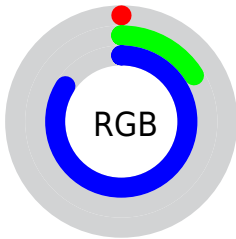
Format	Color
RYB	0, 35, 214
Decimal	10966
CIELab	30.67, 56.24, -87.24
CIElCh	31, 103.797, 302.807
Yxy	6.5110, 0.1550, 0.0778
Android (android.graphics.Color)	4278201046 (0xFF002AD6)
YUV	49.0500, 81.3203, -43.0168
Hunter-Lab	25.5167, 46.0458, -131.2929

Details

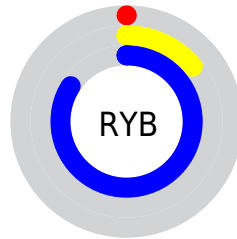
The XYZ color **12.9656, 6.5110, 64.1917** is a dark color, and the websafe version is hex **0033CC**. The color can be described as dark washed blue. A complement of this color would be **42.4956, 43.8236, 6.2206**, and the grayscale version is **2.8458, 2.9940, 3.2605**.

A 20% lighter version of the original color is **27.8545, 17.8280, 96.5808**, and **6.1716, 2.4686, 32.4990** is the 20% darker color. If you saturate the color by 10%, you get **12.9639, 6.5076, 64.1914**, and if you desaturate by 10%, it is **14.0309, 8.1681, 64.4557**.

Distribution



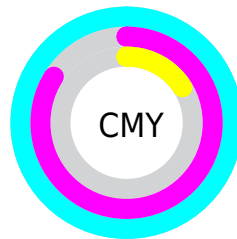
- Red (0%)
- Green (16%)
- Blue (84%)



- Red (0%)
- Yellow (14%)
- Blue (84%)



- Cyan (100%)
- Magenta (80%)
- Yellow (0%)
- Black (16%)



- Cyan (100%)
- Magenta (84%)
- Yellow (16%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9656, 6.5110, 64.1917 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 12.9656, 6.5110, 64.1917 by changing the saturation by 10% instead.

■ 12.9656, 6.5110,
64.1917

■ 12.9656, 6.5110,
64.1917

204.3391,
163.5363, 458.1080

■ 7.4817, 3.1582,
46.3588

■ 30.8438, 18.9825,
112.4891

■ 3.8141, 1.2149,
32.1783

■ 43.9688, 28.8700,
143.7906

■ 1.5975, 0.0738,
21.2318

■ 60.3716, 41.7045,
180.4188

■ 0.3908, 0.0000,
13.1007

■ 80.4175, 57.8705,
222.7922

■ 0.0000, 0.0000,
7.3664

■ 104.4718, 77.7522,
271.3292

■ 0.0000, 0.0000,
3.6104

■ 132.9000,

■ 0.0000, 0.0000,

101.7342, 326.4485

1.4141

166.0673,
130.2008, 388.5686

■ 0.0000, 0.0000,
0.1527

■ 0.0000, 0.0000,
0.0000

■ 12.9656, 6.5110,
64.1917

■ 12.9656, 6.5110,
64.1917

■ 12.9639, 6.5076,
64.1914

■ 14.0309, 8.1681,
64.4557

■ 15.7402, 10.5904,
64.8331

■ 18.2367, 13.8898,
65.3384

■ 21.6079, 18.1456,
65.9822

■ 25.9293, 23.4277,
66.7739

■ 31.2679, 29.7990,
67.7224

■ 37.6846, 37.3174,
68.8354

■ 45.2351, 46.0365,
70.1204

■ 53.9716, 56.0064,
71.5843

Harmonies

Analogous

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



6.6696, 6.5110, 84.9688



12.9656, 6.5110, 64.1917



19.2193, 6.5110, 28.4722

Triad

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



12.9656, 6.5110, 64.1917



11.6801, 6.5110, 0.0000



0.6960, 6.5110, 8.5197

Complementary

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



12.9656, 6.5110, 64.1917



42.4956, 43.8236, 6.2206

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.



0.9800, 6.5110, 0.3803



12.9656, 6.5110, 64.1917



5.7311, 6.5110, 0.0000

Square

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



12.9656, 6.5110, 64.1917



18.2378, 6.5110, 0.0000



2.3139, 6.5110, 0.0000



1.1238, 6.5110, 34.7662

Rectangle

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



12.9656, 6.5110, 64.1917



21.3897, 6.5110, 11.1096



2.3139, 6.5110, 0.0000



0.7129, 6.5110, 4.1790

Sweetspot

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



12.9661, 6.5110, 64.1919



55.7051, 55.1043, 102.3080



31.4182, 51.0420, 46.8298



11.0153, 10.7350, 21.7414



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.



12.9661, 6.5110, 64.1919



19.1902, 9.5004, 95.4301



14.2681, 5.9542, 64.0158



11.9378, 12.3989, 15.7016



7.8940, 4.0499, 38.8188



0.5347, 0.3615, 2.3609

Inverse Universe

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



28.1501, 14.4645, 3.4983



41.8155, 21.4902, 4.9606



36.5909, 54.5601, 8.6041



12.5218, 12.4602, 13.4219



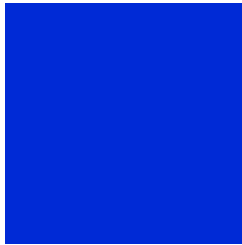
17.0434, 8.7537, 2.2667



1.0576, 0.5398, 0.2925

Previews

White Background



This preview shows how the XYZ color 12.9656, 6.5110, 64.1917 looks on a white background.

Color Contrast Check

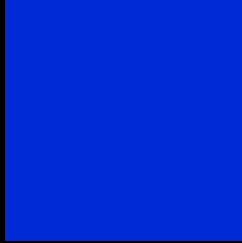
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.9656, 6.5110, 64.1917 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

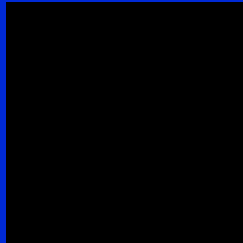
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.9656, 6.5110, 64.1917

Background



This preview shows how black text looks on a background with the XYZ color 12.9656, 6.5110, 64.1917.



This preview shows how white text looks on a background with the XYZ color 12.9656, 6.5110,

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

12.9656, 6.5110, 64.1917

Protanopia

7.3785, 6.4556, 28.0513

Deuteranopia

6.1542, 6.4874, 19.9966



Tritanopia

4.4689, 6.3774, 9.3829

Trichromacy



Original Color

12.9656, 6.5110, 64.1917

Protanomaly

8.9665, 6.1720, 39.2468

Deuteranomaly

7.8633, 5.9893, 32.6399

Tritanomaly

6.0449, 5.5351, 22.2225

Monochromacy



Original Color

12.9656, 6.5110, 64.1917

Achromatopsia

2.9193, 3.0713, 3.3447

Achromatomaly

4.3024, 3.3494, 14.8877

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9656, 6.5110, 64.1917 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, 42, 214)` looks like.

```
.text, #text, p{  
    color:rgb(0, 42, 214)  
}
```

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, 42, 214) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 42, 214) }
```

Border

The CSS property to change the border of an element to XYZ 12.9656, 6.5110, 64.1917 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, 42, 214) }
```


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

```
.border{ border-color:rgb(0, 42, 214) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 42, 214)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 42, 214); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 42, 214);  
box-shadow:4px 4px 4px 4px rgb(0, 42, 214)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.9656, 6.5110, 64.1917 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 42, 214) }
```

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

```
.background{ background-color: rgb(0, 42,  
214) }
```

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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