

Converting Colors

XYZ(12.9534, 5.5527, 65.8654)

Have a look what the booklet for
XYZ(12.9534, 5.5527, 65.8654)
contains.

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Color

**XYZ(12.9901, 5.5710,
66.0363)**

Conversions

Conversions Part 1

Format	Color
Hex	1212D9
RGB	18, 18, 217
RGB Percent	7%, 7%, 85%
CMY	0.9293, 0.9294, 0.1490
CMYK	0.92, 0.92, 0.00, 0.15
HSL	240°, 85%, 46%
HSV	240°, 92%, 85%
XYZ	12.9901, 5.5710, 66.0363
YIQ	40.6860, -63.8790, 61.8890

Conversions

Conversions Part 2

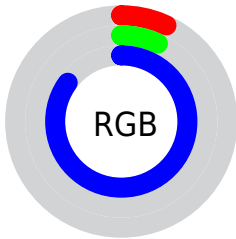
Format	Color
RYB	18, 18, 217
Decimal	1184473
CIELab	28.30, 66.59, -92.91
CIELCh	28, 114.305, 305.629
Yxy	5.5710, 0.1536, 0.0659
Android (android.graphics.Color)	4279374553 (0xFF1212D9)
YUV	40.6860, 86.9228, -19.8956
Hunter-Lab	23.6030, 56.9339, -149.3593




Details

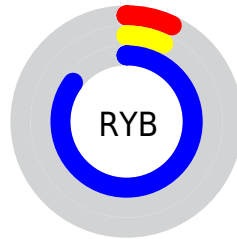
The XYZ color **12.9901, 5.5710, 66.0363** is a dark color, and the websafe version is hex **0000CC**. The color can be described as dark washed blue. A complement of this color would be **53.5257, 64.4152, 10.1842**, and the grayscale version is **2.0074, 2.1119, 2.2999**.




A 20% lighter version of the original color is **27.3088, 15.6283, 96.1850**, and **6.3452, 2.5381, 33.4132** is the 20% darker color. If you saturate the color by 10%, you get **12.5250, 5.0101, 65.9528**, and if you desaturate by 10%, it is **14.1373, 6.9523, 66.2427**.

Distribution







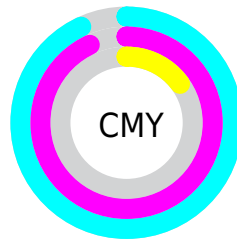
-  Red (7%)
-  Green (7%)
-  Blue (85%)






-  Red (7%)
-  Yellow (7%)
-  Blue (85%)



-  Cyan (92%)
-  Magenta (92%)
-  Yellow (0%)
-  Black (15%)



-  Cyan (93%)
-  Magenta (93%)
-  Yellow (15%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9901, 5.5710, 66.0363 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 12.9901, 5.5710, 66.0363 by changing the saturation by 10% instead.

■ 12.9901, 5.5710,
66.0363

■ 12.9901, 5.5710,
66.0363

204.4931,
155.1979, 464.9145

■ 7.4987, 2.5860,
47.8452

■ 30.8875, 17.0343,
115.1659

■ 3.8250, 0.9196,
33.3452

■ 44.0241, 26.2815,
146.9415

■ 1.6036, 0.0000,
22.1177

■ 60.4399, 38.3848,
184.0824

■ 0.3948, 0.0000,
13.7443

■ 80.5002, 53.7287,
227.0071

■ 0.0000, 0.0000,
7.8063

■ 104.5702, 72.6975,
276.1341


■ 0.0000, 0.0000,
3.8853


■ 133.0155, 95.6758,

■ 0.0000, 0.0000,


331.8819


1.5626


 166.2014,
123.0477, 394.6692

 0.0000, 0.0000,
0.2639


 0.0000, 0.0000,
0.0000

 12.9901, 5.5710,
66.0363


 12.9901, 5.5710,
66.0363

 12.5250, 5.0101,
65.9528

 14.1373, 6.9523,
66.2427

 16.1647, 9.3947,
66.6073

 19.2024, 13.0546,
67.1536

 23.3586, 18.0624,
67.9011

■ 28.7278, 24.5319,
68.8669

■ 35.3942, 32.5647,
70.0660

■ 43.4349, 42.2535,
71.5124

■ 52.9206, 53.6837,
73.2187

■ 63.9175, 66.9349,
75.1968

Harmonies

Analogous

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



6.2836, 5.5710, 93.5585



12.9901, 5.5710, 66.0363



19.5371, 5.5710, 25.6693

Triad

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



12.9901, 5.5710, 66.0363



10.2675, 5.5710, 0.0000



0.2012, 5.5710, 9.1485

Complementary

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



12.9901, 5.5710, 66.0363



53.5257, 64.4152, 10.1842

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.



0.4364, 5.5710, 0.1141



12.9901, 5.5710, 66.0363



4.4160, 5.5710, 0.0000

Square

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



12.9901, 5.5710, 66.0363



17.3935, 5.5710, 0.0000



1.4629, 5.5710, 0.0000



0.7101, 5.5710, 39.7766

Rectangle

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



12.9901, 5.5710, 66.0363



21.5601, 5.5710, 8.3867



1.4629, 5.5710, 0.0000



0.1959, 5.5710, 4.2183

Sweetspot

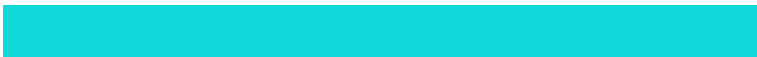
The Sweet Spot groups the original color and five complimentary colors.



12.9906, 5.5710, 66.0365



54.7824, 51.4778, 101.6566



37.5867, 54.7642, 74.2354



10.7158, 9.8015, 21.5770



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.



12.9906, 5.5710, 66.0365



18.0506, 7.2203, 95.0500



20.1435, 9.2584, 66.3713



12.3390, 12.6174, 16.4372



7.5820, 3.0329, 39.9242



0.4913, 0.1965, 2.5865

Inverse Universe

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



41.3508, 20.1918, 67.3368



59.2818, 28.4767, 96.9369



32.3250, 53.4859, 9.1920



13.6143, 13.2748, 16.4963



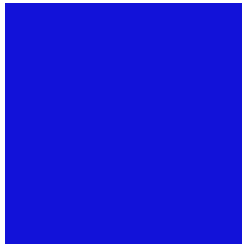
24.9004, 11.9612, 40.7172



1.6132, 0.7749, 2.6381

Previews

White Background



This preview shows how the XYZ color 12.9901, 5.5710, 66.0363 looks on a white background.

Color Contrast Check

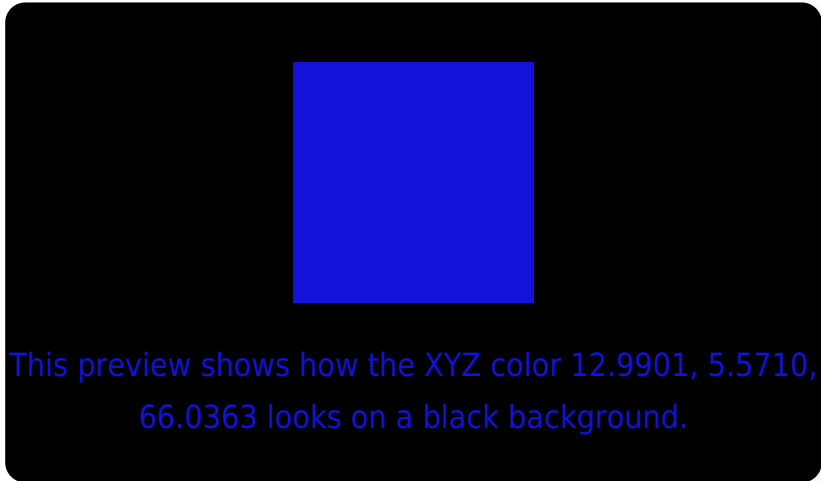
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

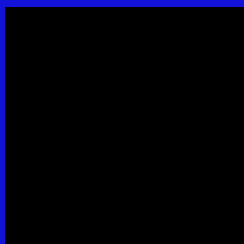
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.9901, 5.5710, 66.0363

Background



This preview shows how black text looks on a background with the XYZ color 12.9901, 5.5710, 66.0363.



This preview shows how white text looks on a background with the XYZ color 12.9901, 5.5710,

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

12.9901, 5.5710, 66.0363

Protanopia

6.3342, 5.5582, 24.0315

Deuteranopia

5.2226, 5.4940, 17.0049



Tritanopia

3.8912, 5.5822, 8.0801

Trichromacy



Original Color

12.9901, 5.5710, 66.0363

Protanomaly

7.9361, 4.8757, 36.1201

Deuteranomaly

6.8957, 4.5934, 30.2289

Tritanomaly

5.3692, 4.2685, 21.3098

Monochromacy



Original Color

12.9901, 5.5710, 66.0363

Achromatopsia

2.1076, 2.2174, 2.4147

Achromatomaly

3.7209, 2.4310, 13.6377

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9901, 5.5710, 66.0363 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(18, 18, 217)` looks like.

```
.text, #text, p{  
    color:rgb(18, 18, 217)  
}
```

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(18, 18, 217) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(18, 18, 217) }
```

Border

The CSS property to change the border of an element to XYZ 12.9901, 5.5710, 66.0363 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(18, 18, 217) }
```


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

```
.border{ border-color:rgb(18, 18, 217) }
```

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

Here you see how a box with a 4 pixel rgb(18, 18, 217) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(18, 18, 217); -webkit-box-  
shadow:4px 4px 4px 4px rgb(18, 18, 217);  
box-shadow:4px 4px 4px 4px rgb(18, 18,  
217) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9901, 5.5710, 66.0363 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(18, 18, 217) }
```

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

```
.background{ background-color: rgb(18, 18,  
217) }
```

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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