

Converting Colors

XYZ(16.9597, 9.7199, 77.1350)

Have a look what the booklet for
XYZ(16.9597, 9.7199, 77.1350)
contains.

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Color

**XYZ(16.9702, 9.7045,
77.3227)**

Conversions

Conversions Part 1

Format	Color
Hex	213FE8
RGB	33, 63, 232
RGB Percent	13%, 25%, 91%
CMY	0.8705, 0.7530, 0.0902
CMYK	0.86, 0.73, 0.00, 0.09
HSL	231°, 81%, 52%
HSV	231°, 86%, 91%
XYZ	16.9702, 9.7045, 77.3227
YIQ	73.2960, -72.1290, 46.1990

Conversions

Conversions Part 2

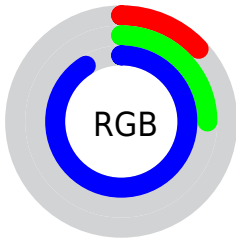
Format	Color
R _Y B	33, 59, 232
Decimal	2179048
CIE Lab	37.31, 51.78, -86.53
CIE LCh	37, 100.835, 300.896
Yxy	9.7045, 0.1632, 0.0933
Android (android.graphics.Color)	4280369128 (0xFF213FE8)
YUV	73.2960, 78.2411, -35.3396
Hunter-Lab	31.1520, 42.7225, -125.3577

Details

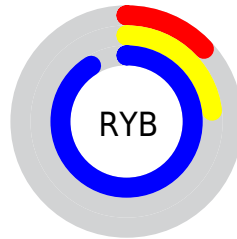
The XYZ color **16.9702, 9.7045, 77.3227** is a dark color, and the websafe version is hex **0033CC**. The color can be described as dark washed blue. A complement of this color would be **54.6809, 59.5202, 10.0472**, and the grayscale version is **6.2624, 6.5885, 7.1749**.

A 20% lighter version of the original color is **31.3154, 22.6599, 97.3310**, and **7.9707, 3.5609, 40.8247** is the 20% darker color. If you saturate the color by 10%, you get **15.5631, 7.6386, 76.9984**, and if you desaturate by 10%, it is **19.2796, 12.8145, 77.8016**.

Distribution



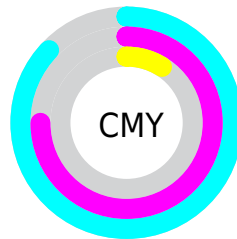
- Red (13%)
- Green (25%)
- Blue (91%)



- Red (13%)
- Yellow (23%)
- Blue (91%)



- Cyan (86%)
- Magenta (73%)
- Yellow (0%)
- Black (9%)



- Cyan (87%)
- Magenta (75%)
- Yellow (9%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 16.9702, 9.7045, 77.3227 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 16.9702, 9.7045, 77.3227 by changing the saturation by 10% instead.

■ 16.9702, 9.7045,
77.3227

■ 16.9702, 9.7045,
77.3227

228.1602,
188.5498, 505.3304

■ 10.3084, 5.2035,
57.0046

■ 37.8185, 25.2382,
131.3721

■ 5.6678, 2.3671,
40.5996

■ 52.7358, 37.0397,
165.9405

■ 2.6829, 0.8089,
27.6890

■ 71.1356, 52.0434,
206.0960

■ 0.9884, 0.0000,
17.8544

■ 93.3833, 70.6338,
252.2573

■ 0.0000, 0.0000,
10.6771

■ 119.8443, 93.1952,
304.8428

■ 0.0000, 0.0000,
5.7387

■ 150.8838,

■ 0.0000, 0.0000,

120.1121, 364.2712

2.6207

186.8673,
151.7689, 430.9609

■ 0.0000, 0.0000,
0.9031

■ 0.0000, 0.0000,
0.0000

■ 16.9702, 9.7045,
77.3227

■ 16.9702, 9.7045,
77.3227

■ 15.5631, 7.6386,
76.9984

■ 19.2796, 12.8145,
77.8016

■ 15.1650, 7.0251,
76.9010

■ 22.6170, 17.0898,
78.4509

■ 27.0896, 22.6345,
79.2854

■ 32.7900, 29.5405,
80.3180

■ 39.8011, 37.8913,
81.5603

■ 48.1988, 47.7634,
83.0232

■ 58.0526, 59.2278,
84.7167

■ 69.4278, 72.3512,
86.6502

■ 82.3854, 87.1962,
88.8327

Harmonies

Analogous

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



9.4151, 9.7045, 97.4373



16.9702, 9.7045, 77.3227



24.4228, 9.7045, 38.1151

Triad

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



16.9702, 9.7045, 77.3227



16.4809, 9.7045, 0.0000



1.6303, 9.7045, 11.1201

Complementary

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



16.9702, 9.7045, 77.3227



54.6809, 59.5202, 10.0472

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.



2.1619, 9.7045, 1.0718



16.9702, 9.7045, 77.3227



9.0351, 9.7045, 0.0000

Square

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



16.9702, 9.7045, 77.3227



24.0610, 9.7045, 0.8770



4.2878, 9.7045, 0.0000



2.2349, 9.7045, 40.3750

Rectangle

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



16.9702, 9.7045, 77.3227



27.1609, 9.7045, 17.0796



4.2878, 9.7045, 0.0000



1.6785, 9.7045, 5.9638

Sweetspot

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



16.9709, 9.7046, 77.3230



59.3134, 58.7034, 102.8125



39.7747, 62.1532, 63.8346



11.8819, 11.6116, 21.8650



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.



16.9709, 9.7046, 77.3230



18.7563, 8.6327, 95.2854



20.2940, 9.5877, 77.1253



13.7572, 14.2358, 18.1670



8.4756, 4.0132, 42.7111



0.6809, 0.4058, 3.1744

Inverse Universe

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



34.7205, 18.6038, 6.4631



41.5965, 21.4026, 3.8074



44.7895, 65.8954, 11.7991



14.4650, 14.4032, 15.3833



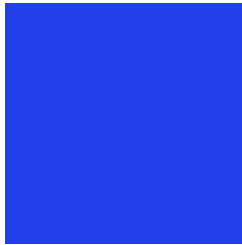
18.6716, 9.6028, 1.8995



1.4073, 0.7206, 0.2855

Previews

White Background



This preview shows how the XYZ color 16.9702, 9.7045, 77.3227 looks on a white background.

Color Contrast Check

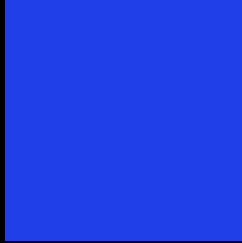
Large Text (above 18pt) WCAG AA ✓ Pass

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 16.9702, 9.7045, 77.3227 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

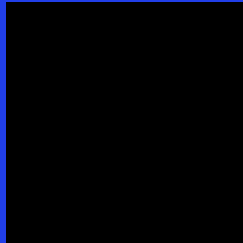
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 16.9702, 9.7045, 77.3227

Background



This preview shows how black text looks on a background with the XYZ color 16.9702, 9.7045, 77.3227.



This preview shows how white text looks on a background with the XYZ color 16.9702, 9.7045,

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

16.9702, 9.7045, 77.3227

Protanopia

11.1061, 9.5150, 42.8462

Deuteranopia

9.1612, 9.5143, 30.2078



Tritanopia

6.6730, 9.5087, 14.0540

Trichromacy



Original Color

16.9702, 9.7045, 77.3227

Protanomaly

12.8141, 9.2783, 53.9388

Deuteranomaly

11.2585, 9.1108, 44.3452

Tritanomaly

8.8249, 8.7451, 29.6566

Monochromacy



Original Color

16.9702, 9.7045, 77.3227

Achromatopsia

6.3328, 6.6626, 7.2556

Achromatomaly

7.9698, 6.7945, 22.3641

CSS Examples

Text

The CSS property to change the color of the text to XYZ 16.9702, 9.7045, 77.3227 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(33, 63, 232)` looks like.

```
.text, #text, p{  
    color:rgb(33, 63, 232)  
}
```

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(33, 63, 232) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 63, 232) }
```

Border

The CSS property to change the border of an element to XYZ 16.9702, 9.7045, 77.3227 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(33, 63, 232) }
```


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

```
.border{ border-color:rgb(33, 63, 232) }
```

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

Here you see how a box with a 4 pixel rgb(33, 63, 232) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 63, 232); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 63, 232);  
box-shadow:4px 4px 4px 4px rgb(33, 63,  
232) }
```

Background

The CSS property to change the background color of an element to XYZ 16.9702, 9.7045, 77.3227 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 63, 232) }
```

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

```
.background{ background-color: rgb(33, 63,  
232) }
```

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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