

Converting Colors

XYZ(16.8382, 8.5827, 82.9738)

Have a look what the booklet for
XYZ(16.8382, 8.5827, 82.9738)
contains.

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Color

**XYZ(16.8688, 8.5725,
83.2036)**

Conversions

Conversions Part 1

Format	Color
Hex	0032F0
RGB	0, 50, 240
RGB Percent	0%, 20%, 94%
CMY	0.9997, 0.8039, 0.0588
CMYK	1.00, 0.79, 0.00, 0.06
HSL	228°, 100%, 47%
HSV	228°, 100%, 94%
XYZ	16.8688, 8.5725, 83.2036
YIQ	56.7100, -90.7900, 48.4900

Conversions

Conversions Part 2

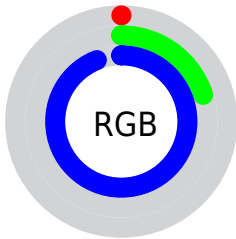
Format	Color
RYB	0, 41, 240
Decimal	13040
CIELab	35.15, 60.52, -94.66
CIELCh	35, 112.356, 302.593
Yxy	8.5725, 0.1553, 0.0789
Android (android.graphics.Color)	4278203120 (0xFF0032F0)
YUV	56.7100, 90.3620, -49.7347
Hunter-Lab	29.2788, 51.6036, -147.9931

Details

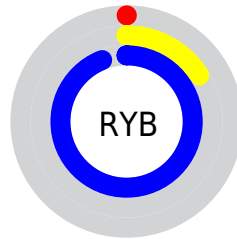
The XYZ color **16.8688, 8.5725, 83.2036** is a dark color, and the websafe version is hex **0033FF**. The color can be described as dark saturated blue. A complement of this color would be **54.3650, 55.3841, 7.8268**, and the grayscale version is **3.7483, 3.9435, 4.2945**.

A 20% lighter version of the original color is **29.4513, 19.7211, 96.8620**, and **8.4544, 3.3991, 44.4665** is the 20% darker color. If you saturate the color by 10%, you get **16.8663, 8.5675, 83.2031**, and if you desaturate by 10%, it is **18.2348, 10.7427, 83.5508**.

Distribution



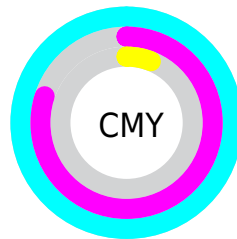
- Red (0%)
- Green (20%)
- Blue (94%)



- Red (0%)
- Yellow (16%)
- Blue (94%)



- Cyan (100%)
- Magenta (79%)
- Yellow (0%)
- Black (6%)



- Cyan (100%)
- Magenta (80%)
- Yellow (6%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 16.8688, 8.5725, 83.2036 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 16.8688, 8.5725, 83.2036 by changing the saturation by 10% instead.

■ 16.8688, 8.5725,
83.2036

■ 16.8688, 8.5725,
83.2036

227.5862,
180.1559, 525.6536

■ 10.2357, 4.4634,
61.8165

■ 37.6455, 23.0734,
139.7124

■ 5.6190, 1.9360,
44.4496

■ 52.5197, 34.2339,
175.6712

■ 2.6533, 0.5699,
30.6844

■ 70.8718, 48.5138,
217.3243

■ 0.9732, 0.0000,
20.1022

■ 93.0670, 66.2973,
265.0902

■ 0.0000, 0.0000,
12.2845

■ 119.4707, 87.9689,
319.3876

■ 0.0000, 0.0000,
6.8129

■ 150.4482,

■ 0.0000, 0.0000,

113.9129, 380.6349

3.2687

186.3649,
144.5138, 449.2507

■ 0.0000, 0.0000,
1.2334

■ 0.0000, 0.0000,
0.0063

■ 16.8688, 8.5725,
83.2036

■ 16.8688, 8.5725,
83.2036

■ 16.8663, 8.5675,
83.2031

■ 18.2348, 10.7427,
83.5508

■ 20.4407, 13.9020,
84.0444

■ 23.6649, 18.1898,
84.7021

■ 28.0226, 23.7084,
85.5376

■ 33.6127, 30.5477,
86.5631

■ 40.5228, 38.7887,
87.7895

■ 48.8323, 48.5058,
89.2272

■ 58.6143, 59.7678,
90.8854

■ 69.9367, 72.6392,
92.7731

Harmonies

Analogous

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



8.7245, 8.5725, 109.5813



16.8688, 8.5725, 83.2036



24.9649, 8.5725, 37.2709

Triad

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



16.8688, 8.5725, 83.2036



15.3326, 8.5725, 0.0000



0.9638, 8.5725, 11.0425

Complementary

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



16.8688, 8.5725, 83.2036



54.3650, 55.3841, 7.8268

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.



1.3377, 8.5725, 0.6209



16.8688, 8.5725, 83.2036



7.5973, 8.5725, 0.0000

Square

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



16.8688, 8.5725, 83.2036



23.7950, 8.5725, 0.0055



3.1112, 8.5725, 0.0000



1.5139, 8.5725, 44.7578

Rectangle

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



16.8688, 8.5725, 83.2036



27.7960, 8.5725, 14.7305



3.1112, 8.5725, 0.0000



0.9860, 8.5725, 5.4485

Sweetspot

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



16.8695, 8.5726, 83.2039



55.9102, 55.5145, 102.3763



40.2398, 65.9523, 58.1947



11.0625, 10.8294, 21.7572



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.



16.8695, 8.5726, 83.2039



19.3260, 9.7719, 95.4753



18.1163, 7.5235, 82.9357



15.1637, 15.7616, 19.9647



9.3095, 4.8433, 45.5721



0.8438, 0.5416, 3.8143

Inverse Universe

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



36.5117, 18.7571, 4.7132



41.8840, 21.5176, 5.3215



48.1781, 71.0934, 11.1851



15.9073, 15.8126, 17.0683



20.0246, 10.2823, 2.7804



1.7009, 0.8694, 0.4156

Previews

White Background



This preview shows how the XYZ color 16.8688, 8.5725, 83.2036 looks on a white background.

Color Contrast Check

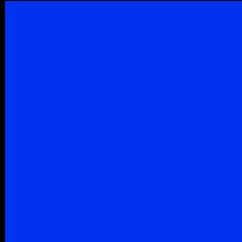
Large Text (above 18pt) WCAG AA ✓ Pass

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 16.8688, 8.5725, 83.2036 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

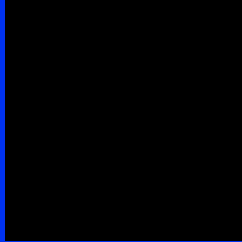
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 16.8688, 8.5725, 83.2036

Background



This preview shows how black text looks on a background with the XYZ color 16.8688, 8.5725, 83.2036.



This preview shows how white text looks on a background with the XYZ color 16.8688, 8.5725,

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

16.8688, 8.5725, 83.2036

Protanopia

9.7710, 8.3820, 37.6621

Deuteranopia

8.0562, 8.4201, 26.3999



Tritanopia

5.8524, 8.3267, 12.3651

Trichromacy



Original Color

16.8688, 8.5725, 83.2036

Protanomaly

11.8047, 8.0293, 51.9666

Deuteranomaly

10.2532, 7.8091, 42.5619

Tritanomaly

7.9297, 7.3070, 29.0094

Monochromacy



Original Color

16.8688, 8.5725, 83.2036

Achromatopsia

3.8890, 4.0915, 4.4557

Achromatomaly

5.6848, 4.4686, 19.6317

CSS Examples

Text

The CSS property to change the color of the text to XYZ 16.8688, 8.5725, 83.2036 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, 240)` looks like.

```
.text, #text, p{  
    color:rgb(0, 50, 240)  
}
```

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, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 50, 240) }
```

Border

The CSS property to change the border of an element to XYZ 16.8688, 8.5725, 83.2036 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, 240) }
```


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

```
.border{ border-color:rgb(0, 50, 240) }
```

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, 240)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 50, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 50, 240);  
box-shadow:4px 4px 4px 4px rgb(0, 50, 240)  
}
```

Background

The CSS property to change the background color of an element to XYZ 16.8688, 8.5725, 83.2036 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, 240) }
```

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

```
.background{ background-color: rgb(0, 50,  
240) }
```

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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