

Converting Colors

XYZ(16.6128, 8.1318, 82.8986)

Have a look what the booklet for
XYZ(16.6128, 8.1318, 82.8986)
contains.

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Color

**XYZ(16.6666, 8.1680,
83.1362)**

Conversions

Conversions Part 1

Format	Color
Hex	002DF0
RGB	0, 45, 240
RGB Percent	0%, 18%, 94%
CMY	0.9997, 0.8236, 0.0588
CMYK	1.00, 0.81, 0.00, 0.06
HSL	229°, 100%, 47%
HSV	229°, 100%, 94%
XYZ	16.6666, 8.1680, 83.1362
YIQ	53.7750, -89.4150, 51.1050

Conversions

Conversions Part 2

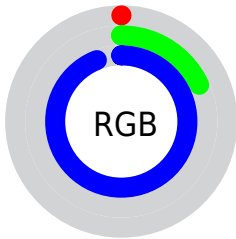
Format	Color
RYB	0, 38, 240
Decimal	11760
CIELab	34.33, 62.92, -96.02
CIELCh	34, 114.800, 303.235
Yxy	8.1680, 0.1544, 0.0757
Android (android.graphics.Color)	4278201840 (0xFF002DF0)
YUV	53.7750, 91.8089, -47.1607
Hunter-Lab	28.5797, 54.0799, -152.4643

Details

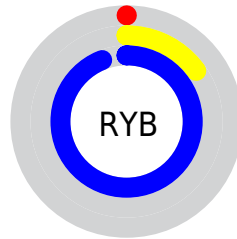
The XYZ color **16.6666, 8.1680, 83.1362** is a dark color, and the websafe version is hex **0033FF**. The color can be described as dark saturated blue. A complement of this color would be **55.4688, 57.5917, 8.1949**, and the grayscale version is **3.3800, 3.5561, 3.8726**.

A 20% lighter version of the original color is **29.2124, 19.0493, 96.7450**, and **8.4435, 3.3774, 44.4628** is the 20% darker color. If you saturate the color by 10%, you get **16.6641, 8.1630, 83.1357**, and if you desaturate by 10%, it is **17.9684, 10.2098, 83.4620**.

Distribution



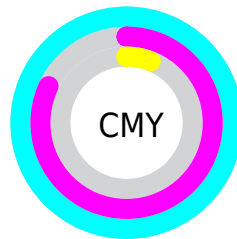
- Red (0%)
- Green (18%)
- Blue (94%)



- Red (0%)
- Yellow (15%)
- Blue (94%)



- Cyan (100%)
- Magenta (81%)
- Yellow (0%)
- Black (6%)



- Cyan (100%)
- Magenta (82%)
- Yellow (6%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 16.6666, 8.1680, 83.1362 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 16.6666, 8.1680, 83.1362 by changing the saturation by 10% instead.

■ 16.6666, 8.1680,
83.1362

■ 16.6666, 8.1680,
83.1362

226.4376,
177.0438, 525.4232

■ 10.0909, 4.2026,
61.7613

■ 37.2998, 22.2871,
139.6171

■ 5.5220, 1.7875,
44.4053

■ 52.0881, 33.2097,
175.5602

■ 2.5945, 0.4794,
30.6497

■ 70.3445, 47.2201,
217.1964

■ 0.9432, 0.0000,
20.0760

■ 92.4346, 64.7028,
264.9443

■ 0.0000, 0.0000,
12.2657

■ 118.7235, 86.0421,
319.2224

■ 0.0000, 0.0000,
6.8002

■ 149.5768,

■ 0.0000, 0.0000,

111.6224, 380.4492

3.2609

185.3597,
141.8282, 449.0433

■ 0.0000, 0.0000,
1.2293

■ 0.0000, 0.0000,
0.0028

■ 16.6666, 8.1680,
83.1362

■ 16.6666, 8.1680,
83.1362

■ 16.6641, 8.1630,
83.1357

■ 17.9684, 10.2098,
83.4620

■ 20.1215, 13.2631,
83.9379

■ 23.3077, 17.4748,
84.5829

■ 27.6453, 22.9530,
85.4117

■ 33.2357, 29.7927,
86.4372

■ 40.1689, 38.0796,
87.6713

■ 48.5262, 47.8920,
89.1248

■ 58.3826, 59.3024,
90.8078

■ 69.8076, 72.3788,
92.7296

Harmonies

Analogous

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



8.4798, 8.1680, 111.1744



16.6666, 8.1680, 83.1362



24.7856, 8.1680, 36.1399

Triad

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



16.6666, 8.1680, 83.1362



14.7414, 8.1680, 0.0000



0.8143, 8.1680, 11.0375

Complementary

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



16.6666, 8.1680, 83.1362



55.4688, 57.5917, 8.1949

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.



1.1397, 8.1680, 0.5238



16.6666, 8.1680, 83.1362



7.0886, 8.1680, 0.0000

Square

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



16.6666, 8.1680, 83.1362



23.3082, 8.1680, 0.0000



2.7783, 8.1680, 0.0000



1.3443, 8.1680, 45.6549

Rectangle

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



16.6666, 8.1680, 83.1362



27.5602, 8.1680, 13.7334



2.7783, 8.1680, 0.0000



0.8294, 8.1680, 5.3498

Sweetspot

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



16.6673, 8.1680, 83.1365



55.5558, 54.8058, 102.2582



40.6772, 66.1273, 60.4978



10.9809, 10.6664, 21.7300



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.



16.6673, 8.1680, 83.1365



19.0964, 9.3129, 95.3988



18.4054, 7.6726, 82.9493



15.1367, 15.7075, 19.9557



9.1926, 4.6095, 45.5331



0.8303, 0.5146, 3.8098

Inverse Universe

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



36.4096, 18.7163, 4.1756



41.7682, 21.4713, 4.7114



47.3138, 70.6478, 11.1448



15.8937, 15.8072, 16.9964



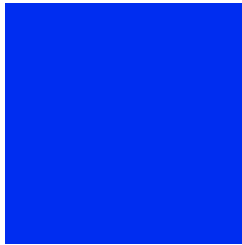
19.9656, 10.2587, 2.4697



1.6940, 0.8667, 0.3797

Previews

White Background



This preview shows how the XYZ color 16.6666, 8.1680, 83.1362 looks on a white background.

Color Contrast Check

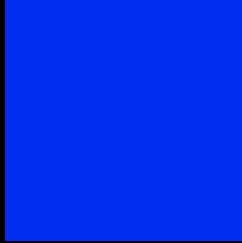
Large Text (above 18pt) WCAG AA ✓ Pass

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 16.6666, 8.1680, 83.1362 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

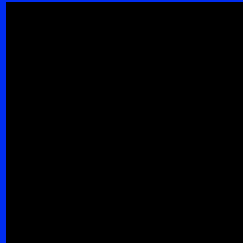
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 16.6666, 8.1680, 83.1362

Background



This preview shows how black text looks on a background with the XYZ color 16.6666, 8.1680, 83.1362.



This preview shows how white text looks on a background with the XYZ color 16.6666, 8.1680,

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

16.6666, 8.1680, 83.1362

Protanopia

9.2647, 7.9521, 35.6969

Deuteranopia

7.6807, 8.0215, 25.1882



Tritanopia

5.5482, 7.9351, 11.5951

Trichromacy



Original Color

16.6666, 8.1680, 83.1362

Protanomaly

11.2943, 7.5422, 50.1507

Deuteranomaly

9.8660, 7.3514, 41.4564

Tritanomaly

7.5709, 6.8404, 28.1154

Monochromacy



Original Color

16.6666, 8.1680, 83.1362

Achromatopsia

3.5063, 3.6889, 4.0173

Achromatomaly

5.3564, 4.1129, 18.9239

CSS Examples

Text

The CSS property to change the color of the text to XYZ 16.6666, 8.1680, 83.1362 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, 45, 240)` looks like.

```
.text, #text, p{  
    color:rgb(0, 45, 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, 45, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 45, 240) }
```

Border

The CSS property to change the border of an element to XYZ 16.6666, 8.1680, 83.1362 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, 45, 240) }
```


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

```
.border{ border-color:rgb(0, 45, 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, 45, 240)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 45, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 45, 240);  
box-shadow:4px 4px 4px 4px rgb(0, 45, 240)  
}
```

Background

The CSS property to change the background color of an element to XYZ 16.6666, 8.1680, 83.1362 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 45, 240) }
```

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

```
.background{ background-color: rgb(0, 45,  
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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