

Converting Colors

XYZ(33.9143, 15.6717, 83.4421)

Have a look what the booklet for
XYZ(33.9143, 15.6717, 83.4421)
contains.

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Color

**XYZ(33.8596, 15.6384,
83.6720)**

Conversions

Conversions Part 1

Format	Color
Hex	B100F0
RGB	177, 0, 240
RGB Percent	69%, 0%, 94%
CMY	0.3059, 1.0000, 0.0588
CMYK	0.26, 1.00, 0.00, 0.06
HSL	284°, 100%, 47%
HSV	284°, 100%, 94%
XYZ	33.8596, 15.6384, 83.6720
YIQ	80.2830, 28.4520, 112.1640

Conversions

Conversions Part 2

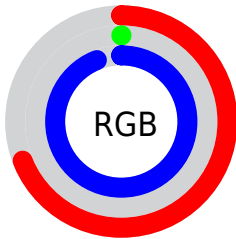
Format	Color
R_{YB}	177, 0, 240
Decimal	11600112
CIE _{Lab}	46.50, 85.07, -75.44
CIE _{LCh}	46, 113.697, 318.433
Yxy	15.6384, 0.2543, 0.1174
Android (android.graphics.Color)	4289790192 (0xFFB100F0)
YUV	80.2830, 78.7405, 84.8208
Hunter-Lab	39.5454, 83.6309, -97.7667

Details

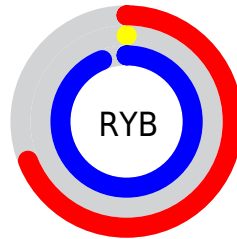
The XYZ color **33.8596, 15.6384, 83.6720** is a dark color, and the websafe version is hex **CC00FF**. The color can be described as middle saturated purple. A complement of this color would be **33.2107, 63.3775, 10.4830**, and the grayscale version is **7.5294, 7.9215, 8.6265**.

A 20% lighter version of the original color is **56.9661, 32.7095, 97.9189**, and **15.8834, 7.2008, 45.3525** is the 20% darker color. If you saturate the color by 10%, you get **33.8597, 15.6384, 83.6723**, and if you desaturate by 10%, it is **35.6556, 17.0495, 83.8500**.

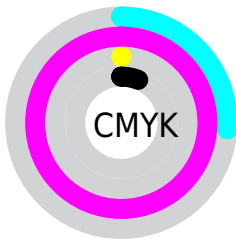
Distribution



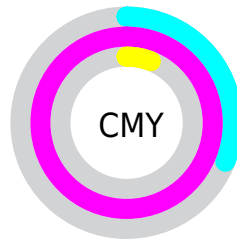
- Red (69%)
- Green (0%)
- Blue (94%)



- Red (69%)
- Yellow (0%)
- Blue (94%)



- Cyan (26%)
- Magenta (100%)
- Yellow (0%)
- Black (6%)




- Cyan (31%)
- Magenta (100%)
- Yellow (6%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 33.8596, 15.6384, 83.6720 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 33.8596, 15.6384, 83.6720 by changing the saturation by 10% instead.

 33.8596, 15.6384,
83.6720


 33.8596, 15.6384,
83.6720


311.1025,
227.1984, 527.2529


 22.9481, 9.2686,
62.2008


 65.0610, 35.9693,
140.3739

 14.6757, 4.9168,
44.7582


 86.0817, 50.6992,
176.4417


 8.6769, 2.1985,
30.9254


 111.2028, 68.9847,
218.2122

 4.5865, 0.7192,
20.2841

 140.7897, 91.2100,
266.1038

 2.0390, 0.0000,
12.4156

 175.2078,
117.7597, 320.5352

 0.6557, 0.0000,
6.9014

 214.8224,

 0.0000, 0.0000,

149.0180, 381.9248

3.3230

259.9988,
185.3695, 450.6912

■ 0.0000, 0.0000,
1.2618

■ 0.0000, 0.0000,
0.0302

■ 33.8596, 15.6384,
83.6720

■ 33.8596, 15.6384,
83.6720

■ 33.8597, 15.6384,
83.6723

■ 35.6556, 17.0495,
83.8500

■ 37.9218, 19.3022,
84.1654

■ 40.7860, 22.6502,
84.6607

■ 44.3242, 27.2440,
85.3609

■ 48.6001, 33.2098,
86.2870

■ 53.6697, 40.6585,
87.4576

■ 59.5831, 49.6891,
88.8890

■ 66.3862, 60.3921,
90.5963

■ 74.1213, 72.8511,
92.5934

Harmonies

Analogous

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



21.6442, 15.6384, 136.4322



33.8596, 15.6384, 83.6720



41.9773, 15.6384, 30.2839

Triad

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



33.8596, 15.6384, 83.6720



18.9662, 15.6384, 0.0000



3.2039, 15.6384, 40.3889

Complementary

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



33.8596, 15.6384, 83.6720



33.2107, 63.3775, 10.4830

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.



2.9988, 15.6384, 8.3449



33.8596, 15.6384, 83.6720



9.6718, 15.6384, 0.0000

Square

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



33.8596, 15.6384, 83.6720



31.1748, 15.6384, 0.0000



4.7612, 15.6384, 0.3306



5.5469, 15.6384, 97.5693

Rectangle

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



33.8596, 15.6384, 83.6720



42.3355, 15.6384, 10.2832



4.7612, 15.6384, 0.3306



2.9377, 15.6384, 26.2181

Sweetspot

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



33.8604, 15.6390, 83.6724



68.3041, 56.9084, 101.9922



17.5622, 9.9591, 83.4351



13.9804, 11.1953, 21.6740



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.



33.8604, 15.6390, 83.6724



38.8043, 17.9192, 96.0213



44.5875, 21.9864, 47.2428



16.0258, 15.8105, 19.9287



18.6668, 8.6285, 45.8095



1.6457, 0.7656, 3.8153

Inverse Universe

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



36.8329, 18.8846, 6.4077



42.2513, 21.6645, 7.2552



31.8744, 62.6061, 14.1467



15.9431, 15.8270, 17.2567



20.2090, 10.3560, 3.7513



1.7208, 0.8774, 0.5204

Previews

White Background



This preview shows how the XYZ color 33.8596, 15.6384, 83.6720 looks on a white background.

Color Contrast Check

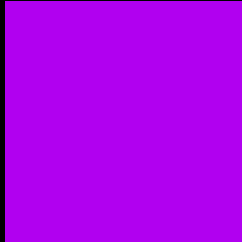
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 33.8596, 15.6384, 83.6720 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

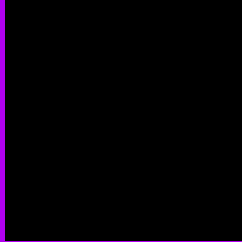
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 33.8596, 15.6384, 83.6720

Background



This preview shows how black text looks on a background with the XYZ color 33.8596, 15.6384, 83.6720.



This preview shows how white text looks on a background with the XYZ color 33.8596, 15.6384,

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

33.8596, 15.6384, 83.6720

Protanopia

19.2277, 16.2712, 74.8003

Deuteranopia

16.2104, 16.1118, 55.6816



Tritanopia

19.8692, 15.9136, 14.3363

Trichromacy



Original Color

33.8596, 15.6384, 83.6720

Protanomaly

18.8080, 11.1724, 77.5091

Deuteranomaly

16.5071, 10.6592, 64.1382

Tritanomaly

22.3876, 13.2852, 31.0901

Monochromacy



Original Color

33.8596, 15.6384, 83.6720

Achromatopsia

7.6249, 8.0220, 8.7359

Achromatomaly

12.8415, 7.8475, 24.8826

CSS Examples

Text

The CSS property to change the color of the text to XYZ 33.8596, 15.6384, 83.6720 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(177, 0, 240)` looks like.

```
.text, #text, p{  
    color:rgb(177, 0, 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(177, 0, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(177, 0, 240) }
```

Border

The CSS property to change the border of an element to XYZ 33.8596, 15.6384, 83.6720 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(177, 0, 240) }
```


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

```
.border{ border-color:rgb(177, 0, 240) }
```

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

Here you see how a box with a 4 pixel rgb(177, 0, 240) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(177, 0, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(177, 0, 240);  
box-shadow:4px 4px 4px 4px rgb(177, 0,  
240) }
```

Background

The CSS property to change the background color of an element to XYZ 33.8596, 15.6384, 83.6720 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(177, 0, 240) }
```

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

```
.background{ background-color: rgb(177, 0,  
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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