

Converting Colors

XYZ(36.3684, 16.9378, 83.5564)

Have a look what the booklet for
XYZ(36.3684, 16.9378, 83.5564)
contains.

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Color

**XYZ(36.4672, 16.9826,
83.7940)**

Conversions

Conversions Part 1

Format	Color
Hex	BC00F0
RGB	188, 0, 240
RGB Percent	74%, 0%, 94%
CMY	0.2627, 1.0000, 0.0588
CMYK	0.22, 1.00, 0.00, 0.06
HSL	287°, 100%, 47%
HSV	287°, 100%, 94%
XYZ	36.4672, 16.9826, 83.7940
YIQ	83.5720, 35.0080, 114.4960

Conversions

Conversions Part 2

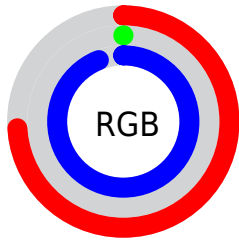
Format	Color
R_{YB}	188, 0, 240
Decimal	12321008
CIE _{Lab}	48.24, 86.43, -72.52
CIE _{LCh}	48, 112.829, 320.001
Yxy	16.9826, 0.2657, 0.1237
Android (android.graphics.Color)	4290511088 (0xFFBC00F0)
YUV	83.5720, 77.1190, 91.5834
Hunter-Lab	41.2100, 85.8395, -91.7100

Details

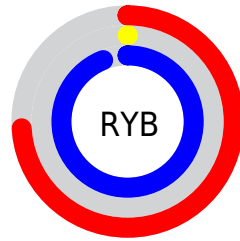
The XYZ color **36.4672, 16.9826, 83.7940** is a dark color, and the websafe version is hex **CC00FF**. The color can be described as middle saturated purple. A complement of this color would be **32.5769, 63.0507, 10.4534**, and the grayscale version is **8.1828, 8.6089, 9.3751**.

A 20% lighter version of the original color is **60.9441, 35.0140, 98.1540**, and **17.4493, 8.0081, 45.4258** is the 20% darker color. If you saturate the color by 10%, you get **36.4673, 16.9827, 83.7943**, and if you desaturate by 10%, it is **38.0991, 18.3091, 83.9643**.

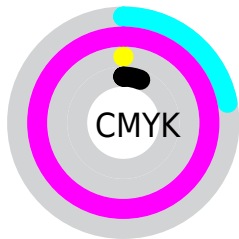
Distribution



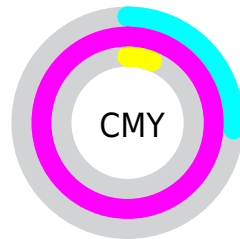
- Red (74%)
- Green (0%)
- Blue (94%)



- Red (74%)
- Yellow (0%)
- Blue (94%)



- Cyan (22%)
- Magenta (100%)
- Yellow (0%)
- Black (6%)



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

Brightness & Saturation Gradients


These gradients show how the XYZ color 36.4672, 16.9826, 83.7940 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 36.4672, 16.9826, 83.7940 by changing the saturation by 10% instead.


 36.4672, 16.9826,
83.7940


 36.4672, 16.9826,
83.7940


322.3937,
235.0721, 527.6691


 24.9670, 10.2221,
62.3010


 69.0717, 38.2959,
140.5461


 16.1811, 5.5465,
44.8386


 90.9068, 53.6174,
176.6423


 9.7440, 2.5713,
30.9883

 116.9175, 72.5614,
218.4433

 5.2905, 0.9123,
20.3315

 147.4693, 95.5122,
266.3676

 2.4552, 0.0000,
12.4498

 182.9274,
122.8543, 320.8338

 0.8727, 0.0000,
6.9245

 223.6573,

 0.0000, 0.0000,

154.9721, 382.2604

3.3372

270.0243,
192.2499, 451.0660

■ 0.0000, 0.0000,
1.2693

■ 0.0000, 0.0000,
0.0364

■ 36.4672, 16.9826,
83.7940

■ 36.4672, 16.9826,
83.7940

■ 36.4673, 16.9827,
83.7943

■ 38.0991, 18.3091,
83.9643

■ 40.1807, 20.4667,
84.2711

■ 42.8394, 23.7088,
84.7567

■ 46.1509, 28.1857,
85.4463

■ 50.1784, 34.0236,
86.3609

■ 54.9777, 41.3328,
87.5188

■ 60.5985, 50.2125,
88.9365

■ 67.0862, 60.7530,
90.6291

■ 74.4830, 73.0376,
92.6104

Harmonies

Analogous

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



23.8750, 16.9826, 138.6523



36.4672, 16.9826, 83.7940



44.4157, 16.9826, 30.1418

Triad

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



36.4672, 16.9826, 83.7940



19.8159, 16.9826, 0.0000



3.7930, 16.9826, 45.3374

Complementary

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



36.4672, 16.9826, 83.7940



32.5769, 63.0507, 10.4534

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.



3.4639, 16.9826, 10.3120



36.4672, 16.9826, 83.7940



10.2893, 16.9826, 0.0000

Square

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



36.4672, 16.9826, 83.7940



32.4373, 16.9826, 0.0000



5.2530, 16.9826, 0.7442



6.4900, 16.9826, 104.3557

Rectangle

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



36.4672, 16.9826, 83.7940



44.4156, 16.9826, 10.3110



5.2530, 16.9826, 0.7442



3.4640, 16.9826, 30.1437

Sweetspot

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



36.4681, 16.9832, 83.7944



69.4728, 57.5109, 102.0468



17.1430, 9.1206, 83.2953



14.2616, 11.3403, 21.6872



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.



36.4681, 16.9832, 83.7944



41.8027, 19.4650, 96.1616



43.7722, 21.6603, 42.9498



16.0996, 15.8486, 19.9321



20.0800, 9.3570, 45.8756



1.7526, 0.8208, 3.8203

Inverse Universe

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



36.5555, 18.7736, 4.9468



41.9356, 21.5382, 5.5930



32.0860, 62.6907, 15.2612



15.9130, 15.8149, 17.0979



20.0507, 10.2927, 2.9178



1.7038, 0.8706, 0.4311

Previews

White Background



This preview shows how the XYZ color 36.4672, 16.9826, 83.7940 looks on a white background.

Color Contrast Check

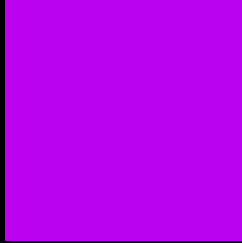
Large Text (above 18pt) WCAG AA ✓ Pass

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 36.4672, 16.9826, 83.7940 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

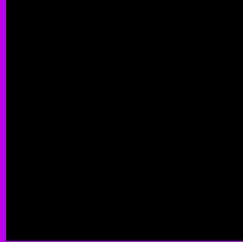
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 36.4672, 16.9826, 83.7940

Background



This preview shows how black text looks on a background with the XYZ color 36.4672, 16.9826, 83.7940.



This preview shows how white text looks on a background with the XYZ color 36.4672, 16.9826,

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

36.4672, 16.9826, 83.7940

Protanopia

20.9345, 17.6445, 81.6592

Deuteranopia

17.7374, 17.6499, 60.8644



Tritanopia

22.5001, 17.2698, 14.4594

Trichromacy



Original Color

36.4672, 16.9826, 83.7940



Protanomaly

19.9232, 11.8498, 81.3579



Deuteranomaly

17.6232, 11.4598, 67.6128



Tritanomaly

24.9626, 14.6127, 31.2106

Monochromacy



Original Color

36.4672, 16.9826, 83.7940



Achromatopsia

8.4267, 8.8656, 9.6546



Achromatomaly

14.1069, 8.6069, 26.1171

CSS Examples

Text

The CSS property to change the color of the text to XYZ 36.4672, 16.9826, 83.7940 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(188, 0, 240)` looks like.

```
.text, #text, p{  
    color:rgb(188, 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(188, 0, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(188, 0, 240) }
```

Border

The CSS property to change the border of an element to XYZ 36.4672, 16.9826, 83.7940 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(188, 0, 240) }
```


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

```
.border{ border-color:rgb(188, 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(188, 0, 240) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(188, 0, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(188, 0, 240);  
box-shadow:4px 4px 4px 4px rgb(188, 0,  
240) }
```

Background

The CSS property to change the background color of an element to XYZ 36.4672, 16.9826, 83.7940 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(188, 0, 240) }
```

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

```
.background{ background-color: rgb(188, 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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