

# Converting Colors

XYZ(40.3266, 20.4614, 96.4317)

Have a look what the booklet for  
XYZ(40.3266, 20.4614, 96.4317)  
contains.

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# Color

**XYZ(40.2201, 20.4065,  
96.4267)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BD33FF
RGB	189, 51, 255
RGB Percent	74%, 20%, 100%
CMY	0.2588, 0.8000, 0.0000
CMYK	0.26, 0.80, 0.00, 0.00
HSL	281°, 100%, 60%
HSV	281°, 80%, 100%
XYZ	40.2201, 20.4065, 96.4267
YIQ	115.5180, 16.7640, 92.7000

# Conversions

## Conversions Part 2

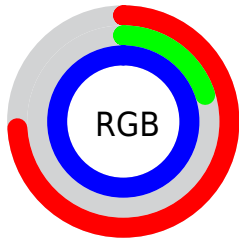
Format	Color
R <sub>Y</sub> B	189, 51, 255
Decimal	12399615
CIE Lab	52.29, 81.01, -74.31
CIE LCh	52, 109.934, 317.469
Yxy	20.4065, 0.2561, 0.1299
Android (android.graphics.Color)	4290589695 (0xFFBD33FF)
YUV	115.5180, 68.7646, 64.4437
Hunter-Lab	45.1736, 79.8731, -94.9379

# Details

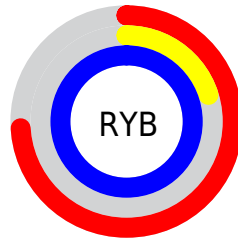
The XYZ color **40.2201, 20.4065, 96.4267** is a light color, and the websafe version is hex **CC33FF**. The color can be described as light washed purple. A complement of this color would be **43.6939, 75.5410, 15.4104**, and the grayscale version is **16.2480, 17.0942, 18.6156**.

A 20% lighter version of the original color is **63.4917, 39.5786, 98.9008**, and **19.1313, 8.6983, 53.4939** is the 20% darker color. If you saturate the color by 10%, you get **37.4068, 17.7310, 96.0586**, and if you desaturate by 10%, it is **43.7616, 24.3631, 97.0038**.

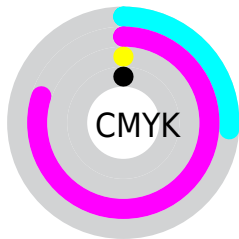
# Distribution



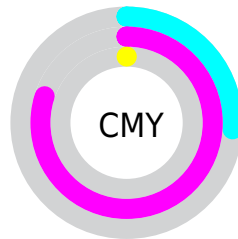
- Red (74%)
- Green (20%)
- Blue (100%)



- Red (74%)
- Yellow (20%)
- Blue (100%)



- Cyan (26%)
- Magenta (80%)
- Yellow (0%)
- Black (0%)




- Cyan (26%)
- Magenta (80%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.2201, 20.4065, 96.4267 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 40.2201, 20.4065, 96.4267 by changing the saturation by 10% instead.




 40.2201, 20.4065,  
96.4267


 40.2201, 20.4065,  
96.4267


338.1689,  
254.1073, 569.8230


 27.8952, 12.6909,  
72.7196

 74.7808, 44.0977,  
158.2467


 18.3867, 7.2160,  
53.2563


 97.7472, 60.8420,  
197.1966


 11.3293, 3.5976,  
37.6183


 124.9915, 81.3647,  
242.0645

 6.3577, 1.4511,  
25.3870

 156.8791,  
106.0501, 293.2689

 3.1065, 0.2539,  
16.1440

 193.7753,  
135.2827, 351.2285

 1.2103, 0.0000,  
9.4706

236.0454,

 0.1145, 0.0000,

169.4468, 416.3616

4.9484

284.0548,  
208.9269, 489.0870

■ 0.0000, 0.0000,  
2.1588

■ 0.0000, 0.0000,  
0.6505

■ 40.2201, 20.4065,  
96.4267

■ 40.2201, 20.4065,  
96.4267

■ 37.4068, 17.7310,  
96.0586

■ 43.7616, 24.3631,  
97.0038

■ 35.1741, 16.0478,  
95.8514

■ 48.1175, 29.7743,  
97.8187

■ 35.1737, 16.0476,  
95.8514

■ 53.3640, 36.7882,  
98.8960

■ 59.5668, 45.5337,  
100.2571

■ 66.7849, 56.1264,  
101.9213

■ 75.0724, 68.6718,  
103.9060

■ 84.4792, 83.2670,  
106.2273

■ 95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



26.6774, 20.4065, 150.1459



40.2201, 20.4065, 96.4267



49.2814, 20.4065, 38.6426

# Triad

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



40.2201, 20.4065, 96.4267



24.5031, 20.4065, 0.0000



5.1748, 20.4065, 46.6256

# Complementary

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



40.2201, 20.4065, 96.4267



43.6939, 75.5410, 15.4104

# 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.



4.9766, 20.4065, 11.2667



40.2201, 20.4065, 96.4267



13.5766, 20.4065, 0.0000

# Square

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



40.2201, 20.4065, 96.4267



38.1059, 20.4065, 0.6398



7.3851, 20.4065, 1.1152



8.1025, 20.4065, 106.8682



# Rectangle

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



40.2201, 20.4065, 96.4267



49.9047, 20.4065, 15.0719



7.3851, 20.4065, 1.1152



4.8432, 20.4065, 31.3299

# Sweetspot

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



40.2211, 20.4072, 96.4268



71.6245, 63.4109, 103.0723



26.0126, 21.1182, 97.3129



14.7052, 12.6280, 21.9123



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.



40.2211, 20.4072, 96.4268



36.0205, 16.6485, 95.9227



55.4752, 28.8485, 71.0515



18.1879, 17.9886, 22.7635



18.5421, 8.4693, 50.0920



1.9198, 0.8836, 4.8826



# Inverse Universe

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



45.6349, 24.9124, 19.2332



43.1706, 22.2094, 11.5505



38.7653, 72.8798, 20.6191



18.2516, 18.0839, 19.9420



22.4148, 11.4552, 5.5689

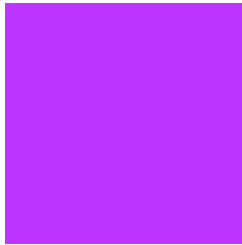


2.2300, 1.1344, 0.7928



# Previews

## White Background



This preview shows how the XYZ color 40.2201, 20.4065, 96.4267 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

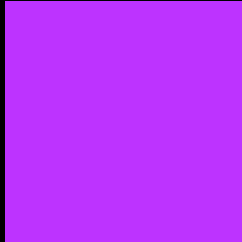
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 40.2201, 20.4065, 96.4267 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

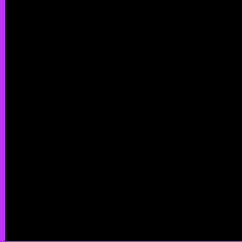
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 40.2201, 20.4065, 96.4267**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.2201, 20.4065, 96.4267.



This preview shows how white text looks on a background with the XYZ color 40.2201, 20.4065,



# 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

40.2201, 20.4065, 96.4267

### Protanopia

24.6059, 20.5887, 96.4431

### Deuteranopia

20.9040, 20.7123, 72.0034



## Tritanopia

24.4513, 20.2016, 19.1336

# Trichromacy



## Original Color

40.2201, 20.4065, 96.4267



## Protanomaly

24.4358, 16.6054, 95.6832



## Deuteranomaly

21.8627, 16.3201, 79.8397



## Tritanomaly

28.0624, 18.7204, 38.6936

# Monochromacy



## Original Color

40.2201, 20.4065, 96.4267



## Achromatopsia

16.6002, 17.4647, 19.0191



## Achromatomaly

22.1299, 16.2840, 38.5360

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.2201, 20.4065, 96.4267 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(189, 51, 255)` looks like.

```
.text, #text, p{  
  color:rgb(189, 51, 255)  
}
```

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(189, 51, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 51, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 40.2201, 20.4065, 96.4267 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(189, 51, 255) }
```



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

```
.border{ border-color:rgb(189, 51, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(189, 51, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(189, 51, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(189, 51, 255); box-shadow:4px 4px 4px 4px rgb(189, 51, 255) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.2201, 20.4065, 96.4267 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 51, 255) }
```

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

```
.background{ background-color: rgb(189, 51,  
255) }
```

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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