

# Converting Colors

XYZ(56.6842, 31.6284, 70.3419)

Have a look what the booklet for  
XYZ(56.6842, 31.6284, 70.3419)  
contains.

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# Color

**XYZ(56.6801, 31.6822,  
70.1457)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF4DDB
RGB	255, 77, 219
RGB Percent	100%, 30%, 86%
CMY	0.0000, 0.6980, 0.1412
CMYK	0.00, 0.70, 0.14, 0.00
HSL	312°, 100%, 65%
HSV	312°, 70%, 100%
XYZ	56.6801, 31.6822, 70.1457
YIQ	146.4100, 60.5060, 81.8980

# Conversions

## Conversions Part 2

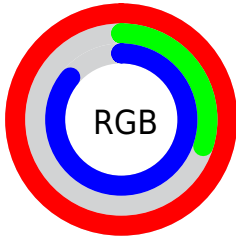
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 77, 219
Decimal	16731611
CIE <sub>Lab</sub>	63.08, 80.00, -36.39
CIE <sub>LCh</sub>	63, 87.885, 335.540
Yxy	31.6822, 0.3576, 0.1999
Android (android.graphics.Color)	4294921691 (0xFFFF4DDB)
YUV	146.4100, 35.7869, 95.2334
Hunter-Lab	56.2869, 81.2446, -34.4873

# Details

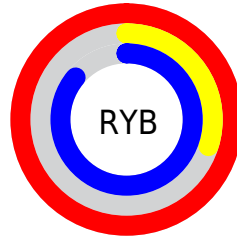
The XYZ color **56.6801, 31.6822, 70.1457** is a light color, and the websafe version is hex **FF33CC**. The color can be described as light washed magenta. A complement of this color would be **41.8024, 74.2906, 27.7617**, and the grayscale version is **27.3317, 28.7551, 31.3143**.

A 20% lighter version of the original color is **68.5226, 46.9452, 100.0575**, and **28.9490, 14.1497, 36.3273** is the 20% darker color. If you saturate the color by 10%, you get **54.5637, 28.5194, 66.1422**, and if you desaturate by 10%, it is **59.5176, 36.2535, 74.4941**.

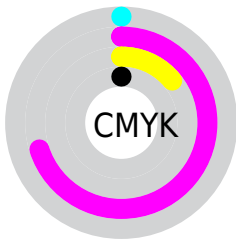
# Distribution



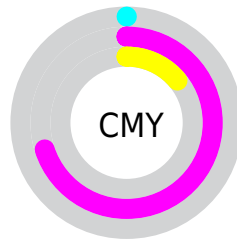
- Red (100%)
- Green (30%)
- Blue (86%)



- Red (100%)
- Yellow (30%)
- Blue (86%)



- Cyan (0%)
- Magenta (70%)
- Yellow (14%)
- Black (0%)



- Cyan (0%)
- Magenta (70%)
- Yellow (14%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 56.6801, 31.6822, 70.1457 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 56.6801, 31.6822, 70.1457 by changing the saturation by 10% instead.



56.6801, 31.6822,  
70.1457

56.6801, 31.6822,  
70.1457

402.2831,  
309.6690, 479.8644

40.9876, 21.1189,  
51.1678

99.1323, 62.3125,  
121.0996

28.4970, 13.2109,  
35.9645

126.6227, 83.1484,  
153.9126

18.8430, 7.5740,  
24.1173

158.7765,  
108.1771, 192.1744

11.6602, 3.8236,  
15.2077

195.9590,  
137.7832, 236.3036

6.5833, 1.5754,  
8.8170

238.5355,  
172.3511, 286.7186

3.2469, 0.3409,  
4.5268

286.8715,

1.2856, 0.0000,

212.2651, 343.8381

1.9186

341.3322,  
257.9096, 408.0805

■ 0.1724, 0.0000,  
0.5045

■ 0.0000, 0.0000,  
0.0000

■ 56.6801, 31.6822,  
70.1457

■ 56.6801, 31.6822,  
70.1457

■ 54.5637, 28.5194,  
66.1422

■ 59.5176, 36.2535,  
74.4941

■ 53.0793, 26.5871,  
62.4519

■ 63.1473, 42.3755,  
79.2110

■ 52.0881, 25.6081,  
59.0278

■ 67.6341, 50.1773,  
84.3191

■ 52.0702, 25.5921,  
58.9612

■ 73.0353, 59.7732,  
89.8386

■ 79.4032, 71.2678,  
95.7877

■ 86.7862, 84.7575,  
102.1834

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.



45.7826, 31.6822, 122.2261



56.6801, 31.6822, 70.1457



59.7552, 31.6822, 28.4493

# Triad

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



56.6801, 31.6822, 70.1457



27.9199, 31.6822, 1.5884



14.8580, 31.6822, 89.6141

# Complementary

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



56.6801, 31.6822, 70.1457



41.8024, 74.2906, 27.7617

# 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.



12.3700, 31.6822, 41.3452



56.6801, 31.6822, 70.1457



18.5016, 31.6822, 3.7086

# Square

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



56.6801, 31.6822, 70.1457



40.8238, 31.6822, 2.4348



13.4977, 31.6822, 13.5915



21.4614, 31.6822, 137.8118



# Rectangle

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



56.6801, 31.6822, 70.1457



56.3979, 31.6822, 12.9885



13.4977, 31.6822, 13.5915



13.6066, 31.6822, 71.9896

# Sweetspot

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



56.6808, 31.6835, 70.1463



78.5866, 69.7853, 95.0507



27.4642, 16.0138, 96.2512



16.4302, 14.2298, 19.9869



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.



56.6808, 31.6835, 70.1463



53.8690, 27.5693, 64.5561



47.9511, 28.1917, 24.1767



18.6260, 18.2337, 21.9134



27.2630, 13.3945, 31.0990



2.6925, 1.3194, 3.2281



# Inverse Universe

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



56.6808, 31.6835, 70.1463



53.8690, 27.5693, 64.5561



49.4350, 77.3436, 67.9542



18.6260, 18.2337, 21.9134



27.2630, 13.3945, 31.0990

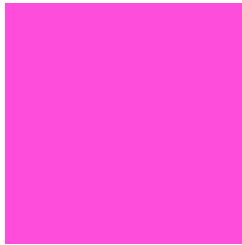


2.6925, 1.3194, 3.2281



# Previews

## White Background



This preview shows how the XYZ color 56.6801, 31.6822, 70.1457 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

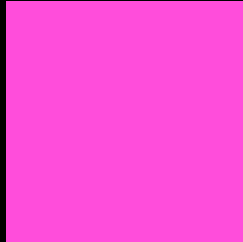
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 56.6801, 31.6822, 70.1457 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

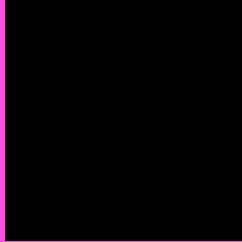
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 56.6801, 31.6822, 70.1457**

## **Background**



This preview shows how black text looks on a background with the XYZ color 56.6801, 31.6822, 70.1457.



This preview shows how white text looks on a background with the XYZ color 56.6801, 31.6822,



# 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

56.6801, 31.6822, 70.1457

### Protanopia

35.1407, 32.2208, 98.9749

### Deuteranopia

32.6051, 31.9215, 64.1175



## Tritanopia

46.1711, 31.3986, 20.1500

# Trichromacy



## Original Color

56.6801, 31.6822, 70.1457



## Protanomaly

37.8079, 28.1538, 87.4459



## Deuteranomaly

37.6817, 28.7525, 65.8511



## Tritanomaly

49.0914, 30.9890, 33.5311

# Monochromacy



## Original Color

56.6801, 31.6822, 70.1457



## Achromatopsia

27.3213, 28.7441, 31.3023



## Achromatomaly

34.6299, 27.1310, 42.9468

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 56.6801, 31.6822, 70.1457 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(255, 77, 219)` looks like.

```
.text, #text, p{  
    color:rgb(255, 77, 219)  
}
```

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(255, 77, 219) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 77, 219) }
```

## Border

The CSS property to change the border of an element to XYZ 56.6801, 31.6822, 70.1457 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(255, 77, 219) }
```



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

```
.border{ border-color:rgb(255, 77, 219) }
```

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

Here you see how a box with a 4 pixel rgb(255, 77, 219) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 77, 219); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 77, 219);  
box-shadow:4px 4px 4px 4px rgb(255, 77,  
219) }
```

# Background

The CSS property to change the background color of an element to XYZ 56.6801, 31.6822, 70.1457 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 77, 219) }
```

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

```
.background{ background-color: rgb(255, 77,  
219) }
```

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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