

# Converting Colors

XYZ(31.1163, 16.5087, 16.7674)

Have a look what the booklet for  
XYZ(31.1163, 16.5087, 16.7674)  
contains.

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# Color

**XYZ(31.2000, 16.5537,  
16.8800)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D62170
RGB	214, 33, 112
RGB Percent	84%, 13%, 44%
CMY	0.1608, 0.8705, 0.5608
CMYK	0.00, 0.85, 0.48, 0.16
HSL	334°, 73%, 48%
HSV	334°, 85%, 84%
XYZ	31.2000, 16.5537, 16.8800
YIQ	96.1250, 82.5170, 62.9410

# Conversions

## Conversions Part 2

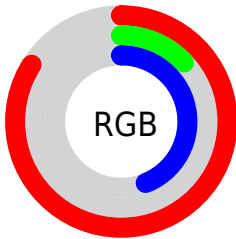
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	214, 33, 112
Decimal	14033264
CIE <sub>Lab</sub>	47.69, 70.37, 2.37
CIE <sub>LCh</sub>	48, 70.415, 1.933
Yxy	16.5537, 0.4827, 0.2561
Android (android.graphics.Color)	4292223344 (0xFFD62170)
YUV	96.1250, 7.8264, 103.3764
Hunter-Lab	40.6862, 65.6807, 3.8820

# Details

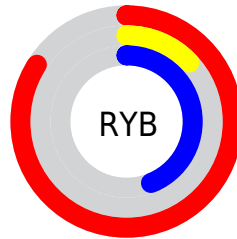
The XYZ color **31.2000, 16.5537, 16.8800** is a dark color, and the websafe version is hex **CC0066**. The color can be described as dark washed rose. A complement of this color would be **29.0486, 50.1663, 31.0802**, and the grayscale version is **11.1182, 11.6972, 12.7383**.

A 20% lighter version of the original color is **52.5045, 33.2117, 38.2935**, and **14.0910, 7.1540, 5.6392** is the 20% darker color. If you saturate the color by 10%, you get **30.1556, 15.4688, 13.4377**, and if you desaturate by 10%, it is **32.7121, 18.4303, 20.9223**.

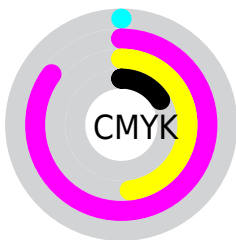
# Distribution



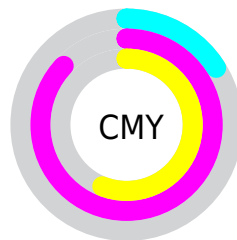
- Red (84%)
- Green (13%)
- Blue (44%)



- Red (84%)
- Yellow (13%)
- Blue (44%)



- Cyan (0%)
- Magenta (85%)
- Yellow (48%)
- Black (16%)



- Cyan (16%)
- Magenta (87%)
- Yellow (56%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.2000, 16.5537, 16.8800 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 31.2000, 16.5537, 16.8800 by changing the saturation by 10% instead.





 31.2000, 16.5537,  
16.8800


 31.2000, 16.5537,  
16.8800


299.2691,  
232.5872, 246.5004


 20.9038, 9.9168,  
9.9879


 60.9285, 37.5568,  
38.9072


 13.1657, 5.3438,  
5.2854


 81.0915, 52.6918,  
54.8793


 7.6206, 2.4504,  
2.3540


 105.2741, 71.4284,  
74.7152

 3.9029, 0.8516,  
0.7613

 133.8417, 94.1508,  
98.8335

 1.6473, 0.0000,  
0.0000

 167.1597,  
121.2434, 127.6526

 0.4230, 0.0000,  
0.0000

 205.5933,

 0.0000, 0.0000,

153.0908, 161.5911

0.0000

249.5080,  
190.0773, 201.0675

■ 31.2000, 16.5537,  
16.8800

■ 31.2000, 16.5537,  
16.8800

■ 30.1556, 15.4688,  
13.4377

■ 32.7121, 18.4303,  
20.9223

■ 29.7246, 15.0933,  
11.7937

■ 34.7560, 21.2210,  
25.6022

■ 37.3861, 25.0297,  
30.9536

■ 40.6494, 29.9456,  
37.0071

■ 44.5878, 36.0478,  
43.7910

■ 49.2395, 43.4082,  
51.3317

■ 54.6398, 52.0929,  
59.6542

■ 60.8213, 62.1635,  
68.7821

■ 67.8149, 73.6776,  
78.7379

# Harmonies

## Analogous

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



29.0166, 16.5537, 39.7544



31.2000, 16.5537, 16.8800



28.4069, 16.5537, 5.2019

# Triad

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



31.2000, 16.5537, 16.8800



10.1598, 16.5537, 1.7070



10.6973, 16.5537, 69.1938

# Complementary

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



31.2000, 16.5537, 16.8800



29.0486, 50.1663, 31.0802

# 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.



7.5336, 16.5537, 43.2857



31.2000, 16.5537, 16.8800



7.2864, 16.5537, 6.1374

# Square

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



31.2000, 16.5537, 16.8800



15.3290, 16.5537, 0.8288



6.4708, 16.5537, 19.2189



16.1456, 16.5537, 79.6271



# Rectangle

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



31.2000, 16.5537, 16.8800



24.4412, 16.5537, 2.1885



6.4708, 16.5537, 19.2189



9.3874, 16.5537, 61.4197

# Sweetspot

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



31.2004, 16.5547, 16.8803



72.7209, 63.7490, 75.5389



22.2851, 10.8944, 64.5463



15.0188, 12.7764, 15.2946



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.



31.2004, 16.5547, 16.8803



44.1249, 22.4140, 17.1219



28.8366, 16.0667, 3.0215



12.6461, 12.5099, 14.0765



18.0169, 9.1431, 7.3932



1.1278, 0.5679, 0.6626



# Inverse Universe

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



31.2004, 16.5547, 16.8803



44.1249, 22.4140, 17.1219



34.5848, 48.8176, 71.2180



12.6461, 12.5099, 14.0765



18.0169, 9.1431, 7.3932



1.1278, 0.5679, 0.6626



# Previews

## White Background



This preview shows how the XYZ color 31.2000, 16.5537, 16.8800 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 31.2000, 16.5537, 16.8800 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 31.2000, 16.5537, 16.8800**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.2000, 16.5537, 16.8800.



This preview shows how white text looks on a background with the XYZ color 31.2000, 16.5537,



# 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

31.2000, 16.5537, 16.8800

### Protanopia

17.2727, 16.9773, 33.8191

### Deuteranopia

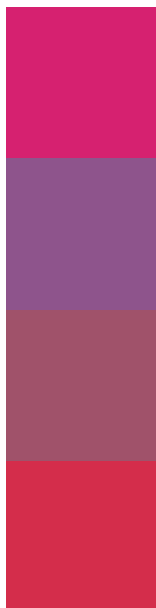
17.0774, 16.7983, 15.1743



## Tritanopia

28.7578, 16.5712, 5.1729

# Trichromacy



## Original Color

31.2000, 16.5537, 16.8800

## Protanomaly

19.0593, 13.9849, 26.5058

## Deuteranomaly

20.1160, 14.5488, 15.3836

## Tritanomaly

29.3598, 16.3818, 8.2712

# Monochromacy



## Original Color

31.2000, 16.5537, 16.8800

## Achromatopsia

11.1181, 11.6971, 12.7381

## Achromatomaly

15.4283, 11.2134, 13.9216

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.2000, 16.5537, 16.8800 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(214, 33, 112)` looks like.

```
.text, #text, p{  
    color:rgb(214, 33, 112)  
}
```

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(214, 33, 112) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(214, 33, 112) }
```

## Border

The CSS property to change the border of an element to XYZ 31.2000, 16.5537, 16.8800 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(214, 33, 112) }
```



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

```
.border{ border-color:rgb(214, 33, 112) }
```

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

Here you see how a box with a 4 pixel `rgb(214, 33, 112)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(214, 33, 112); -webkit-box-  
shadow:4px 4px 4px 4px rgb(214, 33, 112);  
box-shadow:4px 4px 4px 4px rgb(214, 33,  
112) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.2000, 16.5537, 16.8800 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(214, 33, 112) }
```

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

```
.background{ background-color: rgb(214, 33,  
112) }
```

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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