

# Converting Colors

XYZ(31.2160, 16.9132, 12.5953)

Have a look what the booklet for  
XYZ(31.2160, 16.9132, 12.5953)  
contains.

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# Color

**XYZ(31.1557, 16.8945,  
12.6852)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D82760
RGB	216, 39, 96
RGB Percent	85%, 15%, 38%
CMY	0.1529, 0.8470, 0.6235
CMYK	0.00, 0.82, 0.56, 0.15
HSL	341°, 69%, 50%
HSV	341°, 82%, 85%
XYZ	31.1557, 16.8945, 12.6852
YIQ	98.4210, 87.1950, 55.2510

# Conversions

## Conversions Part 2

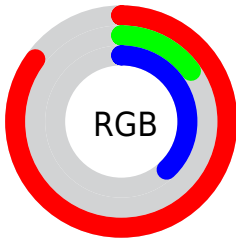
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	216, 39, 96
Decimal	14165856
CIE <sub>Lab</sub>	48.13, 68.34, 12.88
CIE <sub>LCh</sub>	48, 69.544, 10.675
Yxy	16.8945, 0.5130, 0.2782
Android (android.graphics.Color)	4292355936 (0xFFD82760)
YUV	98.4210, -1.1936, 103.1168
Hunter-Lab	41.1029, 63.3715, 10.4739

# Details

The XYZ color **31.1557, 16.8945, 12.6852** is a dark color, and the websafe version is hex **CC3366**. The color can be described as dark washed rose. A complement of this color would be **31.6524, 52.0468, 41.1858**, and the grayscale version is **11.7039, 12.3135, 13.4094**.

A 20% lighter version of the original color is **51.3786, 33.2360, 30.9014**, and **13.9021, 7.1003, 3.6554** is the 20% darker color. If you saturate the color by 10%, you get **30.0242, 15.6122, 9.2856**, and if you desaturate by 10%, it is **32.8168, 19.0354, 16.8814**.

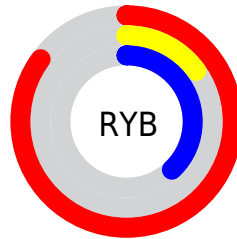
# Distribution



Red (85%)

Green (15%)

Blue (38%)



Red (85%)

Yellow (15%)

Blue (38%)

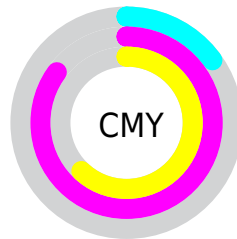


Cyan (0%)

Magenta (82%)

Yellow (56%)

Black (15%)



Cyan (15%)

Magenta (85%)


Yellow (62%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.1557, 16.8945, 12.6852 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 31.1557, 16.8945, 12.6852 by changing the saturation by 10% instead.




 31.1557, 16.8945,  
12.6852


 31.1557, 16.8945,  
12.6852


299.0691,  
234.5637, 220.0267


 20.8698, 10.1593,  
7.0840


 60.8593, 38.1443,  
31.4199


 13.1408, 5.5047,  
3.4354


 81.0078, 53.4277,  
45.3905


 7.6033, 2.5463,  
1.3210


 105.1745, 72.3293,  
62.9879

 3.8918, 0.8998,  
0.0789

 133.7248, 95.2334,  
84.6307

 1.6411, 0.0000,  
0.0000

 167.0240,  
122.5245, 110.7374

 0.4190, 0.0000,  
0.0000

 205.4376,

 0.0000, 0.0000,

154.5870, 141.7267

0.0000

249.3308,  
191.8053, 178.0169

■ 31.1557, 16.8945,  
12.6852

■ 31.1557, 16.8945,  
12.6852

■ 30.0242, 15.6122,  
9.2856

■ 32.8168, 19.0354,  
16.8814

■ 29.4099, 15.0353,  
7.0715

■ 35.0727, 22.1542,  
21.9273

■ 37.9795, 26.3541,  
27.8715

■ 41.5865, 31.7242,  
34.7580

■ 45.9377, 38.3445,  
42.6280

■ 51.0737, 46.2875,  
51.5198

■ 57.0319, 55.6206,  
61.4696

■ 63.8472, 66.4063,  
72.5119

■ 71.5526, 78.7033,  
84.6794

# Harmonies

## Analogous

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



30.4255, 16.8945, 32.4387



31.1557, 16.8945, 12.6852



27.1155, 16.8945, 3.7787

# Triad

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



31.1557, 16.8945, 12.6852



9.3827, 16.8945, 2.6310



12.3716, 16.8945, 74.4404

# Complementary

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



31.1557, 16.8945, 12.6852



31.6524, 52.0468, 41.1858

# 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.



8.5080, 16.8945, 51.5618



31.1557, 16.8945, 12.6852



7.1209, 16.8945, 9.1336

# Square

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



31.1557, 16.8945, 12.6852



13.9155, 16.8945, 1.0245



6.8493, 16.8945, 25.6037



18.4092, 16.8945, 77.9343



# Rectangle

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



31.1557, 16.8945, 12.6852



22.7552, 16.8945, 1.6943



6.8493, 16.8945, 25.6037



10.8231, 16.8945, 68.2891

# Sweetspot

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



31.1561, 16.8955, 12.6855



71.7808, 63.3729, 70.5881



27.0263, 13.5786, 66.1618



14.7970, 12.6877, 14.1268



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.



31.1561, 16.8955, 12.6855



42.9574, 22.0355, 10.7008



30.7835, 18.9421, 3.9546



12.5864, 12.4861, 13.7623



17.4517, 8.9170, 4.4169



1.0900, 0.5528, 0.4632



# Inverse Universe

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



31.1561, 16.8955, 12.6855



42.9574, 22.0355, 10.7008



30.8968, 40.7193, 71.1965



12.5864, 12.4861, 13.7623



17.4517, 8.9170, 4.4169



1.0900, 0.5528, 0.4632



# Previews

## White Background



This preview shows how the XYZ color 31.1557, 16.8945, 12.6852 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 31.1557, 16.8945, 12.6852 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

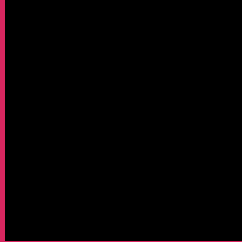
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# XYZ 31.1557, 16.8945, 12.6852

## Background



This preview shows how black text looks on a background with the XYZ color 31.1557, 16.8945, 12.6852.



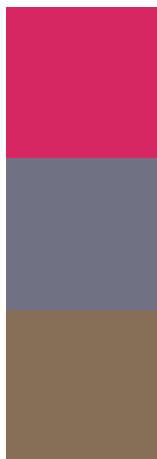
This preview shows how white text looks on a background with the XYZ color 31.1557, 16.8945,



# 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

31.1557, 16.8945, 12.6852

### Protanopia

16.9330, 17.1728, 24.6125

### Deuteranopia

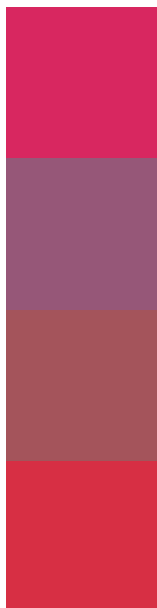
17.3291, 17.0073, 11.6019



## Tritanopia

29.5352, 16.9117, 4.9564

# Trichromacy



## Original Color

31.1557, 16.8945, 12.6852

## Protanomaly

19.3760, 14.6565, 19.5771

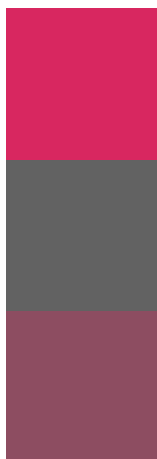
## Deuteranomaly

20.3685, 14.9885, 11.7171

## Tritanomaly

30.0842, 16.8975, 7.1448

# Monochromacy



## Original Color

31.1557, 16.8945, 12.6852

## Achromatopsia

11.6093, 12.2139, 13.3009

## Achromatomaly

15.7961, 11.8335, 12.7608

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.1557, 16.8945, 12.6852 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(216, 39, 96)` looks like.

```
.text, #text, p{  
  color:rgb(216, 39, 96)  
}
```

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(216, 39, 96) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(216, 39, 96) }
```

## Border

The CSS property to change the border of an element to XYZ 31.1557, 16.8945, 12.6852 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(216, 39, 96) }
```



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

```
.border{ border-color:rgb(216, 39, 96) }
```

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

Here you see how a box with a 4 pixel `rgb(216, 39, 96)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(216, 39, 96); -webkit-box-  
shadow:4px 4px 4px 4px rgb(216, 39, 96);  
box-shadow:4px 4px 4px 4px rgb(216, 39,  
96) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.1557, 16.8945, 12.6852 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(216, 39, 96) }
```

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

```
.background{ background-color: rgb(216, 39,  
96) }
```

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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