

# Converting Colors

XYZ(31.8983, 18.7792, 14.2477)

Have a look what the booklet for  
XYZ(31.8983, 18.7792, 14.2477)  
contains.

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# Color

**XYZ(31.8580, 18.7907,  
14.2598)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D63F65
RGB	214, 63, 101
RGB Percent	84%, 25%, 40%
CMY	0.1608, 0.7529, 0.6039
CMYK	0.00, 0.71, 0.53, 0.16
HSL	345°, 65%, 54%
HSV	345°, 71%, 84%
XYZ	31.8580, 18.7907, 14.2598
YIQ	112.4810, 77.7980, 43.8300

# Conversions

## Conversions Part 2

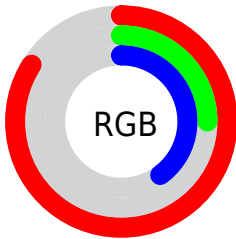
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	214, 63, 101
Decimal	14040933
CIE Lab	50.44, 60.93, 12.99
CIE LCh	50, 62.304, 12.033
Yxy	18.7907, 0.4908, 0.2895
Android (android.graphics.Color)	4292231013 (0xFFD63F65)
YUV	112.4810, -5.6601, 89.0322
Hunter-Lab	43.3482, 55.3259, 10.8398

# Details

The XYZ color **31.8580, 18.7907, 14.2598** is a dark color, and the websafe version is hex **CC3366**. The color can be described as dark muted rose. A complement of this color would be **33.9343, 52.2850, 49.3823**, and the grayscale version is **15.5437, 16.3532, 17.8086**.

A 20% lighter version of the original color is **53.7449, 37.2017, 34.0538**, and **13.8265, 7.0481, 4.2461** is the 20% darker color. If you saturate the color by 10%, you get **30.1847, 16.5801, 10.2006**, and if you desaturate by 10%, it is **34.1455, 21.9852, 19.2785**.

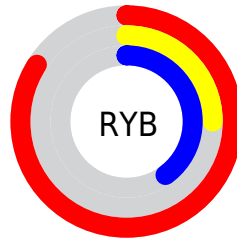
# Distribution



Red (84%)

Green (25%)

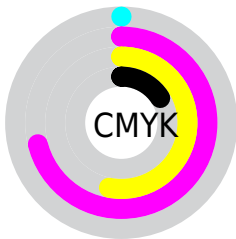
Blue (40%)



Red (84%)

Yellow (25%)

Blue (40%)

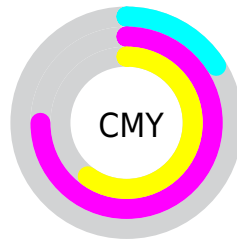


Cyan (0%)

Magenta (71%)

Yellow (53%)

Black (16%)



Cyan (16%)

Magenta (75%)


Yellow (60%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.8580, 18.7907, 14.2598 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 31.8580, 18.7907, 14.2598 by changing the saturation by 10% instead.




 31.8580, 18.7907,  
14.2598


 31.8580, 18.7907,  
14.2598

302.2287,  
245.2909, 230.3255


 21.4081, 11.5191,  
8.1608


 61.9551, 41.3801,  
34.2730

 13.5368, 6.4172,  
4.1087


 82.3330, 57.4668,  
49.0243


 7.8787, 3.1004,  
1.6852


 106.7510, 77.2606,  
67.4968

 4.0686, 1.1844,  
0.3506

 135.5743,  
101.1460, 90.1089

 1.7410, 0.0489,  
0.0000

 169.1684,  
129.5073, 117.2794

 0.4817, 0.0000,  
0.0000

207.8986,

 0.0000, 0.0000,

162.7290, 149.4266

0.0000

252.1302,  
201.1953, 186.9691

■ 31.8580, 18.7907,  
14.2598

■ 31.8580, 18.7907,  
14.2598

■ 30.1847, 16.5801,  
10.2006

■ 34.1455, 21.9852,  
19.2785

■ 29.0585, 15.2331,  
7.0340


■ 37.1017, 26.2593,  
25.3148


■ 28.3937, 14.5610,  
4.7850


■ 40.7765, 31.7004,  
32.4231


■ 45.2144, 38.3865,  
40.6534

■ 50.4564, 46.3885,  
50.0525

 56.5404, 55.7720,  
60.6645

 63.5019, 66.5984,  
72.5311

 71.3741, 78.9251,  
85.6921

 79.9942, 92.4172,  
100.1203

# Harmonies

## Analogous

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



31.4008, 18.7907, 32.5821



31.8580, 18.7907, 14.2598



27.9923, 18.7907, 5.2596

# Triad

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



31.8580, 18.7907, 14.2598



11.1370, 18.7907, 4.3321



14.5002, 18.7907, 71.4767

# Complementary

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



31.8580, 18.7907, 14.2598



33.9343, 52.2850, 49.3823

# 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.



10.5257, 18.7907, 51.9392



31.8580, 18.7907, 14.2598



8.9083, 18.7907, 11.7931

# Square

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



31.8580, 18.7907, 14.2598



15.5385, 18.7907, 2.0982



8.7133, 18.7907, 28.2381



20.4019, 18.7907, 73.5562



# Rectangle

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



31.8580, 18.7907, 14.2598



23.9032, 18.7907, 2.8708



8.7133, 18.7907, 28.2381



12.9323, 18.7907, 66.3753

# Sweetspot

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



31.8585, 18.7918, 14.2601



74.4877, 68.1458, 73.4662



31.3123, 17.3794, 65.3223



15.4565, 13.8403, 14.8592



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.



31.8585, 18.7918, 14.2601



43.9075, 23.4488, 12.5184



33.0192, 23.4355, 7.4873



12.5502, 12.4716, 13.5714



17.1978, 8.8154, 3.0795



1.0709, 0.5451, 0.3626



# Inverse Universe

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



31.8585, 18.7918, 14.2601



43.9075, 23.4488, 12.5184



30.2618, 38.0596, 69.3693



12.5502, 12.4716, 13.5714



17.1978, 8.8154, 3.0795

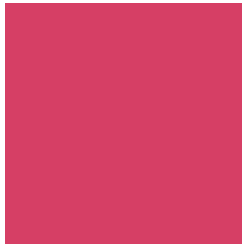


1.0709, 0.5451, 0.3626



# Previews

## White Background



This preview shows how the XYZ color 31.8580, 18.7907, 14.2598 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

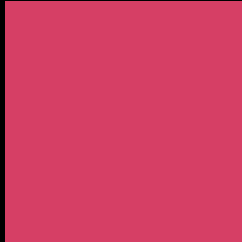
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 31.8580, 18.7907, 14.2598 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 31.8580, 18.7907, 14.2598**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.8580, 18.7907, 14.2598.



This preview shows how white text looks on a background with the XYZ color 31.8580, 18.7907,



# 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

31.8580, 18.7907, 14.2598

### Protanopia

18.4915, 19.0377, 23.8191

### Deuteranopia

19.2503, 18.9617, 13.2350



## Tritanopia

30.4821, 18.7343, 8.3128

# Trichromacy



## Original Color

31.8580, 18.7907, 14.2598

## Protanomaly

21.1180, 17.1256, 19.6453

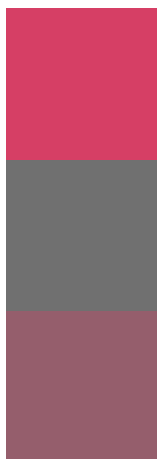
## Deuteranomaly

22.5808, 17.7373, 13.5428

## Tritanomaly

31.0091, 18.7850, 10.1751

# Monochromacy



## Original Color

31.8580, 18.7907, 14.2598

## Achromatopsia

15.4009, 16.2029, 17.6450

## Achromatomaly

19.1039, 15.4777, 16.1680

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.8580, 18.7907, 14.2598 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, 63, 101)` looks like.

```
.text, #text, p{  
    color:rgb(214, 63, 101)  
}
```

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, 63, 101) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(214, 63, 101) }
```

## Border

The CSS property to change the border of an element to XYZ 31.8580, 18.7907, 14.2598 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, 63, 101) }
```



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

```
.border{ border-color:rgb(214, 63, 101) }
```

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

Here you see how a box with a 4 pixel `rgb(214, 63, 101)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(214, 63, 101); -webkit-box-  
shadow:4px 4px 4px 4px rgb(214, 63, 101);  
box-shadow:4px 4px 4px 4px rgb(214, 63,  
101) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.8580, 18.7907, 14.2598 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(214, 63, 101) }
```

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

```
.background{ background-color: rgb(214, 63,  
101) }
```

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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