

Converting Colors

XYZ(31.3977, 17.9115, 3.2478)

Have a look what the booklet for
XYZ(31.3977, 17.9115, 3.2478)
contains.

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Color

**XYZ(31.2771, 17.8496,
3.2357)**

Conversions

Conversions Part 1

Format	Color
Hex	DD3321
RGB	221, 51, 33
RGB Percent	87%, 20%, 13%
CMY	0.1333, 0.7999, 0.8706
CMYK	0.00, 0.77, 0.85, 0.13
HSL	6°, 74%, 50%
HSV	6°, 85%, 87%
XYZ	31.2771, 17.8496, 3.2357
YIQ	99.7780, 107.0980, 30.4420

Conversions

Conversions Part 2

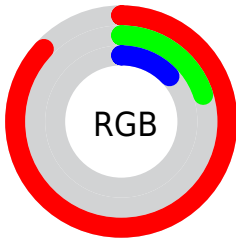
Format	Color
RYB	221, 53, 33
Decimal	14496545
CIELab	49.31, 63.67, 50.66
CIELCh	49, 81.368, 38.506
Yxy	17.8496, 0.5973, 0.3409
Android (android.graphics.Color)	4292686625 (0xFFDD3321)
YUV	99.7780, -32.9216, 106.3117
Hunter-Lab	42.2488, 58.2095, 25.0333

Details

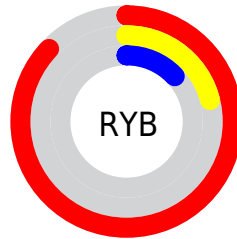
The XYZ color **31.2771, 17.8496, 3.2357** is a dark color, and the websafe version is hex **CC3300**. The color can be described as dark washed red. A complement of this color would be **35.0310, 48.2492, 75.8727**, and the grayscale version is **12.1201, 12.7513, 13.8862**.

A 20% lighter version of the original color is **48.4096, 33.2230, 11.6458**, and **13.9046, 7.1681, 0.6507** is the 20% darker color. If you saturate the color by 10%, you get **30.3692, 16.3776, 1.8742**, and if you desaturate by 10%, it is **32.7635, 20.1548, 5.7906**.

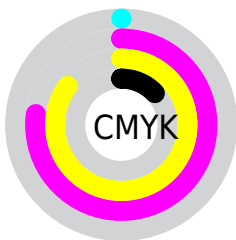
Distribution



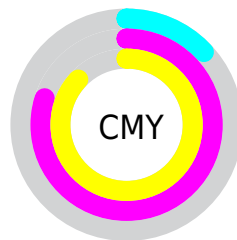
- Red (87%)
- Green (20%)
- Blue (13%)



- Red (87%)
- Yellow (21%)
- Blue (13%)



- Cyan (0%)
- Magenta (77%)
- Yellow (85%)
- Black (13%)





- Cyan (13%)
- Magenta (80%)
- Yellow (87%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 31.2771, 17.8496, 3.2357 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 31.2771, 17.8496, 3.2357 by changing the saturation by 10% instead.


 31.2771, 17.8496,
3.2357


 31.2771, 17.8496,
3.2357

299.6170,
240.0219, 139.3082

 20.9628, 10.8421,
1.2162


 61.0490, 39.7809,
12.2047


 13.2091, 5.9607,
0.0000


 81.2372, 55.4734,
19.9913


 7.6507, 2.8212,
0.0000


 105.4475, 74.8297,
30.5373

 3.9222, 1.0391,
0.0000

 134.0452, 98.2342,
44.2614

 1.6582, 0.0000,
0.0000

 167.3957,
126.0713, 61.5819


 0.4299, 0.0000,
0.0000


 205.8642,


 0.0000, 0.0000,


158.7254, 82.9176


0.0000


 249.8162,
196.5808, 108.6868


 31.2771, 17.8496,
3.2357

 31.2771, 17.8496,
3.2357


 30.3692, 16.3776,
1.8742

 32.7635, 20.1548,
5.7906

 30.0899, 15.9148,
1.4859

 34.9045, 23.3892,
9.7334

 37.7653, 27.6391,
15.2244

 41.4031, 32.9798,
22.4019

 45.8692, 39.4799,
31.3888

■ 51.2105, 47.2019,
42.2964

■ 57.4704, 56.2041,
55.2274

■ 64.6894, 66.5409,
70.2768

■ 72.9055, 78.2638,
87.5337

Harmonies

Analogous

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



36.0693, 17.8496, 13.8456



31.2771, 17.8496, 3.2357



22.9464, 17.8496, 0.6511

Triad

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



31.2771, 17.8496, 3.2357



6.6289, 17.8496, 7.7249



19.2359, 17.8496, 97.9709

Complementary

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



31.2771, 17.8496, 3.2357



35.0310, 48.2492, 75.8727

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.



12.1262, 17.8496, 90.8974



31.2771, 17.8496, 3.2357



6.1792, 17.8496, 26.3569

Square

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



31.2771, 17.8496, 3.2357



9.3559, 17.8496, 1.5949



7.8613, 17.8496, 59.2355



27.8714, 17.8496, 74.5590

Rectangle

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



31.2771, 17.8496, 3.2357



17.3518, 17.8496, 0.2574



7.8613, 17.8496, 59.2355



16.5850, 17.8496, 99.2973

Sweetspot

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



31.2775, 17.8507, 3.2360



69.9196, 63.9748, 56.6368



41.4221, 20.8837, 59.8161



14.3940, 12.8678, 10.9522



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.



31.2775, 17.8507, 3.2360



41.5756, 21.9312, 2.0419



39.8655, 35.0268, 6.0986



13.1559, 13.2511, 13.5899



17.5167, 9.3189, 0.8755



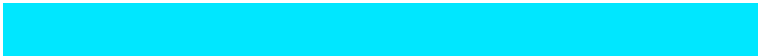
1.1699, 0.6740, 0.0684

Inverse Universe

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



35.0310, 48.2492, 75.8727



46.5051, 64.1301, 104.5350



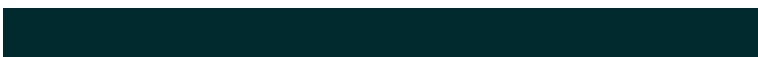
19.3992, 16.9856, 70.6621



13.3327, 14.6051, 16.7685



19.6024, 27.0742, 43.9311



1.3016, 1.8173, 2.8566

Previews

White Background



This preview shows how the XYZ color 31.2771, 17.8496, 3.2357 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 31.2771, 17.8496, 3.2357 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 31.2771, 17.8496, 3.2357

Background



This preview shows how black text looks on a background with the XYZ color 31.2771, 17.8496, 3.2357.



This preview shows how white text looks on a background with the XYZ color 31.2771, 17.8496,

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

31.2771, 17.8496, 3.2357

Protanopia

16.4142, 18.0125, 5.6292

Deuteranopia

18.1886, 17.9779, 2.5114



Tritanopia

31.4928, 17.7991, 4.7933

Trichromacy



Original Color

31.2771, 17.8496, 3.2357

Protanomaly

19.7672, 16.0798, 4.4447

Deuteranomaly

21.4017, 16.4528, 2.3955

Tritanomaly

31.4140, 17.8352, 4.1697

Monochromacy



Original Color

31.2771, 17.8496, 3.2357

Achromatopsia

12.1130, 12.7438, 13.8780

Achromatomaly

15.8234, 12.4857, 8.4135

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.2771, 17.8496, 3.2357 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(221, 51, 33)` looks like.

```
.text, #text, p{  
    color:rgb(221, 51, 33)  
}
```

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(221, 51, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(221, 51, 33) }
```

Border

The CSS property to change the border of an element to XYZ 31.2771, 17.8496, 3.2357 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(221, 51, 33) }
```


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

```
.border{ border-color:rgb(221, 51, 33) }
```

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

Here you see how a box with a 4 pixel `rgb(221, 51, 33)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(221, 51, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(221, 51, 33);  
box-shadow:4px 4px 4px 4px rgb(221, 51,  
33) }
```

Background

The CSS property to change the background color of an element to XYZ 31.2771, 17.8496, 3.2357 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(221, 51, 33) }
```

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

```
.background{ background-color: rgb(221, 51,  
33) }
```

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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