

Converting Colors

XYZ(31.7702, 18.0028, 1.8004)

Have a look what the booklet for
XYZ(31.7702, 18.0028, 1.8004)
contains.

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Color

**XYZ(31.8388, 18.0439,
1.8047)**

Conversions

Conversions Part 1

Format	Color
Hex	E03100
RGB	224, 49, 0
RGB Percent	88%, 19%, 0%
CMY	0.1216, 0.8078, 1.0000
CMYK	0.00, 0.78, 1.00, 0.12
HSL	13°, 100%, 44%
HSV	13°, 100%, 88%
XYZ	31.8388, 18.0439, 1.8047
YIQ	95.7390, 120.0290, 21.8610

Conversions

Conversions Part 2

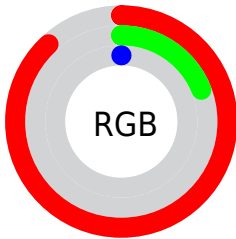
Format	Color
R_{YB}	224, 63, 0
Decimal	14692608
CIE Lab	49.55, 64.71, 62.02
CIE LCh	50, 89.634, 43.785
Yxy	18.0439, 0.6160, 0.3491
Android (android.graphics.Color)	4292882688 (0xFFE03100)
YUV	95.7390, -47.1993, 112.4849
Hunter-Lab	42.4781, 59.4552, 27.2157

Details

The XYZ color **31.8388, 18.0439, 1.8047** 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 **28.7817, 36.0363, 75.9593**, and the grayscale version is **11.1468, 11.7273, 12.7710**.

A 20% lighter version of the original color is **47.5797, 32.7173, 7.8103**, and **14.2981, 7.3709, 0.6691** is the 20% darker color. If you saturate the color by 10%, you get **31.8391, 18.0449, 1.8049**, and if you desaturate by 10%, it is **32.8673, 19.8633, 2.8812**.

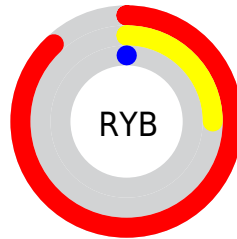
Distribution



Red (88%)

Green (19%)

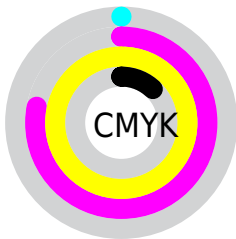
Blue (0%)



Red (88%)

Yellow (25%)

Blue (0%)

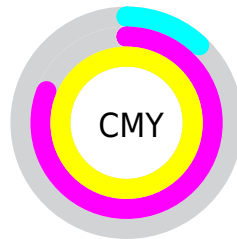


Cyan (0%)

Magenta (78%)

Yellow (100%)

Black (12%)



Cyan (12%)


Magenta (81%)


Yellow (100%)


Brightness & Saturation Gradients


These gradients show how the XYZ color 31.8388, 18.0439, 1.8047 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 31.8388, 18.0439, 1.8047 by changing the saturation by 10% instead.


 31.8388, 18.0439,
1.8047


 31.8388, 18.0439,
1.8047


 302.1426,
241.1184, 119.2665


 21.3934, 10.9815,
0.4311


 61.9252, 40.1121,
8.4996


 13.5259, 6.0544,
0.0000


 82.2969, 55.8867,
14.7503

 7.8712, 2.8782,
0.0000


 106.7080, 75.3342,
23.4944

 4.0637, 1.0685,
0.0000

 135.5239, 98.8389,
35.1506

 1.7383, 0.0000,
0.0000

 169.1099,
126.7853, 50.1373


 0.4800, 0.0000,
0.0000


 207.8315,


 0.0000, 0.0000,


159.5578, 68.8732


0.0000


 252.0540,
197.5407, 91.7767


 31.8388, 18.0439,
1.8047


 31.8388, 18.0439,
1.8047


 31.8391, 18.0449,
1.8049

 32.8673, 19.8633,
2.8812

 34.3813, 22.3776,
4.9698

 36.4628, 25.6616,
8.3732

 39.1666, 29.7743,
13.2667

 42.5407, 34.7686,
19.7983

■ 46.6279, 40.6928,
28.0980

■ 51.4674, 47.5915,
38.2826

■ 57.0955, 55.5065,
50.4588

■ 63.5459, 64.4771,
64.7255

Harmonies

Analogous

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



38.3882, 18.0439, 10.4804



31.8388, 18.0439, 1.8047



22.1237, 18.0439, 0.0000

Triad

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



31.8388, 18.0439, 1.8047



5.7667, 18.0439, 9.2709



21.3409, 18.0439, 108.9945

Complementary

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



31.8388, 18.0439, 1.8047



28.7817, 36.0363, 75.9593

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.



12.9842, 18.0439, 107.3948



31.8388, 18.0439, 1.8047



5.6805, 18.0439, 33.0232

Square

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



31.8388, 18.0439, 1.8047



8.1537, 18.0439, 1.5341



7.8592, 18.0439, 72.9919



31.1053, 18.0439, 76.4056

Rectangle

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



31.8388, 18.0439, 1.8047



16.0950, 18.0439, 0.0000



7.8592, 18.0439, 72.9919



18.2505, 18.0439, 112.9413

Sweetspot

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



31.8392, 18.0450, 1.8050



68.8949, 63.6319, 51.0342



38.5240, 18.9607, 42.4274



14.1312, 12.7463, 9.6186



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.



31.8392, 18.0450, 1.8050



42.6443, 24.0687, 2.3981



43.4037, 41.1741, 5.6598



13.9492, 14.1843, 14.3094



18.6024, 10.6427, 1.0738



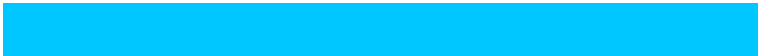
1.3554, 0.8697, 0.0964

Inverse Universe

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



28.7817, 36.0363, 75.9593



38.5202, 48.1604, 101.8734



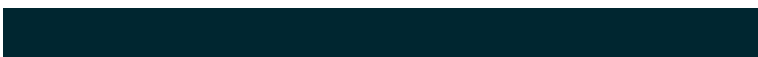
15.2580, 8.9888, 71.4513



13.8488, 15.0368, 17.5602



16.8413, 21.1522, 44.2435



1.2311, 1.5937, 3.0880

Previews

White Background



This preview shows how the XYZ color 31.8388, 18.0439, 1.8047 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 31.8388, 18.0439, 1.8047 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 31.8388, 18.0439, 1.8047

Background



This preview shows how black text looks on a background with the XYZ color 31.8388, 18.0439, 1.8047.



This preview shows how white text looks on a background with the XYZ color 31.8388, 18.0439,

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

31.8388, 18.0439, 1.8047

Protanopia

16.4561, 18.2548, 3.6335

Deuteranopia

18.2996, 18.1998, 2.5484



Tritanopia

32.5215, 18.1588, 4.3757

Trichromacy



Original Color

31.8388, 18.0439, 1.8047

Protanomaly

19.8298, 16.1529, 2.6030

Deuteranomaly

21.5607, 16.5424, 2.0566

Tritanomaly

32.2896, 18.1293, 2.9598

Monochromacy



Original Color

31.8388, 18.0439, 1.8047

Achromatopsia

11.1181, 11.6971, 12.7381

Achromatomaly

14.9660, 11.7685, 5.8976

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.8388, 18.0439, 1.8047 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(224, 49, 0)` looks like.

```
.text, #text, p{  
    color:rgb(224, 49, 0)  
}
```

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(224, 49, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(224, 49, 0) }
```

Border

The CSS property to change the border of an element to XYZ 31.8388, 18.0439, 1.8047 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(224, 49, 0) }
```


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

```
.border{ border-color:rgb(224, 49, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(224, 49, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(224, 49, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(224, 49, 0);  
box-shadow:4px 4px 4px 4px rgb(224, 49, 0)  
}
```

Background

The CSS property to change the background color of an element to XYZ 31.8388, 18.0439, 1.8047 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(224, 49, 0) }
```

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

```
.background{ background-color: rgb(224, 49,  
0) }
```

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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