

Converting Colors

XYZ(31.3242, 16.5838, 2.3580)

Have a look what the booklet for
XYZ(31.3242, 16.5838, 2.3580)
contains.

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Color

**XYZ(31.2015, 16.5219,
2.3552)**

Conversions

Conversions Part 1

Format	Color
Hex	E01717
RGB	224, 23, 23
RGB Percent	88%, 9%, 9%
CMY	0.1216, 0.9097, 0.9098
CMYK	0.00, 0.90, 0.90, 0.12
HSL	0°, 81%, 48%
HSV	0°, 90%, 88%
XYZ	31.2015, 16.5219, 2.3552
YIQ	83.0990, 119.7960, 42.6120

Conversions

Conversions Part 2

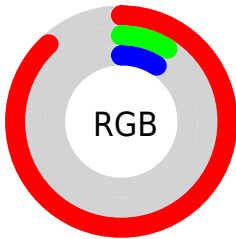
Format	Color
R_{YB}	224, 23, 23
Decimal	14685975
CIE Lab	47.65, 70.56, 54.02
CIE LCh	48, 88.861, 37.438
Yxy	16.5219, 0.6231, 0.3299
Android (android.graphics.Color)	4292876055 (0xFFE01717)
YUV	83.0990, -29.6288, 123.5702
Hunter-Lab	40.6471, 65.8874, 25.0176

Details

The XYZ color **31.2015, 16.5219, 2.3552** is a dark color, and the websafe version is hex **CC0000**. The color can be described as dark washed red. A complement of this color would be **40.4561, 58.8605, 79.7494**, and the grayscale version is **8.2864, 8.7180, 9.4939**.

A 20% lighter version of the original color is **46.5602, 30.0807, 9.3134**, and **14.2981, 7.3709, 0.6691** is the 20% darker color. If you saturate the color by 10%, you get **30.7504, 15.8622, 1.4583**, and if you desaturate by 10%, it is **32.1763, 17.9491, 4.2920**.

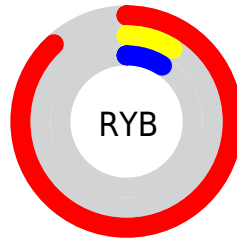
Distribution



Red (88%)

Green (9%)

Blue (9%)



Red (88%)

Yellow (9%)

Blue (9%)

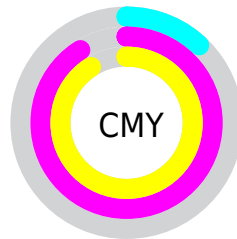


Cyan (0%)

Magenta (90%)

Yellow (90%)

Black (12%)



Cyan (12%)


Magenta (91%)


Yellow (91%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.2015, 16.5219, 2.3552 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 31.2015, 16.5219, 2.3552 by changing the saturation by 10% instead.

 31.2015, 16.5219,
2.3552


 31.2015, 16.5219,
2.3552


299.2759,
232.4020, 127.6691


 20.9049, 9.8942,
0.7619


 60.9309, 37.5019,
9.9909


 13.1666, 5.3289,
0.0000


 81.0943, 52.6230,
16.8843


 7.6211, 2.4415,
0.0000


 105.2775, 71.3440,
26.3860

 3.9033, 0.8471,
0.0000

 133.8457, 94.0494,
38.9146

 1.6475, 0.0000,
0.0000

 167.1643,
121.1235, 54.8887

 0.4231, 0.0000,
0.0000


 205.5986,


 0.0000, 0.0000,


152.9507, 74.7268


0.0000


 249.5140,
189.9154, 98.8474


 31.2015, 16.5219,
2.3552


 31.2015, 16.5219,
2.3552


 30.7504, 15.8622,
1.4583

 32.1763, 17.9491,
4.2920

 30.7405, 15.8478,
1.4387

 33.8339, 20.3749,
7.5866

 36.2689, 23.9381,
12.4268

 39.5608, 28.7552,
18.9706

 43.7793, 34.9281,
27.3565

■ 48.9868, 42.5481,
37.7089

■ 55.2405, 51.6990,
50.1412

■ 62.5931, 62.4578,
64.7585

■ 71.0938, 74.8965,
81.6585

Harmonies

Analogous

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



36.2128, 16.5219, 12.9046



31.2015, 16.5219, 2.3552



22.3155, 16.5219, 0.0069

Triad

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



31.2015, 16.5219, 2.3552



5.4072, 16.5219, 5.8926



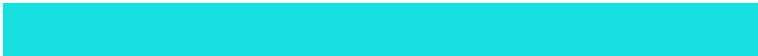
17.7629, 16.5219, 105.4216

Complementary

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



31.2015, 16.5219, 2.3552



40.4561, 58.8605, 79.7494

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.



10.5467, 16.5219, 96.0393



31.2015, 16.5219, 2.3552



4.9125, 16.5219, 24.2605

Square

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



31.2015, 16.5219, 2.3552



8.1343, 16.5219, 0.8111



6.4369, 16.5219, 59.7758



26.9254, 16.5219, 79.7744

Rectangle

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



31.2015, 16.5219, 2.3552



16.3954, 16.5219, 0.0000



6.4369, 16.5219, 59.7758



15.0314, 16.5219, 106.4785

Sweetspot

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



31.2018, 16.5230, 2.3554



67.7113, 59.9965, 54.5497



44.5011, 21.8418, 72.3909



13.9195, 12.0025, 10.5358



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.



31.2018, 16.5230, 2.3554



41.2404, 21.2607, 1.9301



38.0401, 30.1994, 4.6348



13.7074, 13.7008, 14.2288



17.8934, 9.2248, 0.8375



1.2403, 0.6395, 0.0581

Inverse Universe

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



40.4561, 58.8605, 79.7494



53.7992, 78.7184, 106.9664



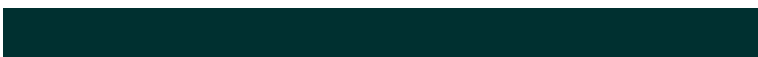
20.9530, 19.8543, 73.2484



14.1165, 15.5721, 17.6494



23.3425, 34.1545, 46.4106



1.6180, 2.3675, 3.2169

Previews

White Background



This preview shows how the XYZ color 31.2015, 16.5219, 2.3552 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 31.2015, 16.5219, 2.3552 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 31.2015, 16.5219, 2.3552

Background



This preview shows how black text looks on a background with the XYZ color 31.2015, 16.5219, 2.3552.



This preview shows how white text looks on a background with the XYZ color 31.2015, 16.5219,

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

31.2015, 16.5219, 2.3552

Protanopia

15.3373, 16.7910, 4.6231

Deuteranopia

16.8642, 16.6544, 2.3258



Tritanopia

31.1606, 16.5380, 2.0400

Trichromacy



Original Color

31.2015, 16.5219, 2.3552

Protanomaly

18.3501, 13.7927, 3.2852

Deuteranomaly

19.9313, 14.2095, 1.9219

Tritanomaly

31.1846, 16.5476, 2.1665

Monochromacy



Original Color

31.2015, 16.5219, 2.3552

Achromatopsia

8.2219, 8.6500, 9.4199

Achromatomaly

12.3426, 8.7427, 5.4519

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.2015, 16.5219, 2.3552 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, 23, 23)` looks like.

```
.text, #text, p{  
    color:rgb(224, 23, 23)  
}
```

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, 23, 23) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(224, 23, 23) }
```

Border

The CSS property to change the border of an element to XYZ 31.2015, 16.5219, 2.3552 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, 23, 23) }
```


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

```
.border{ border-color:rgb(224, 23, 23) }
```

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

Here you see how a box with a 4 pixel `rgb(224, 23, 23)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(224, 23, 23); -webkit-box-  
shadow:4px 4px 4px 4px rgb(224, 23, 23);  
box-shadow:4px 4px 4px 4px rgb(224, 23,  
23) }
```

Background

The CSS property to change the background color of an element to XYZ 31.2015, 16.5219, 2.3552 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(224, 23, 23) }
```

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

```
.background{ background-color: rgb(224, 23,  
23) }
```

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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