

Converting Colors

XYZ(31.2016, 15.6937, 5.4240)

Have a look what the booklet for
XYZ(31.2016, 15.6937, 5.4240)
contains.

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Color

**XYZ(31.5042, 16.1528,
5.4603)**

Conversions

Conversions Part 1

Format	Color
Hex	E0003A
RGB	224, 0, 58
RGB Percent	88%, 0%, 23%
CMY	0.1216, 0.9998, 0.7725
CMYK	0.00, 1.00, 0.74, 0.12
HSL	344°, 100%, 44%
HSV	344°, 100%, 88%
XYZ	31.5042, 16.1528, 5.4603
YIQ	73.5880, 114.8860, 65.5260

Conversions

Conversions Part 2

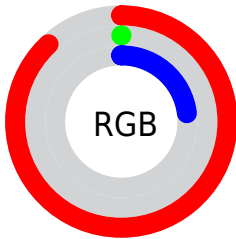
Format	Color
R_{YB}	224, 0, 58
Decimal	14680122
CIE _{Lab}	47.17, 73.73, 35.17
CIE _{LCh}	47, 81.685, 25.501
Yxy	16.1528, 0.5931, 0.3041
Android (android.graphics.Color)	4292870202 (0xFFE0003A)
YUV	73.5880, -7.6849, 131.9113
Hunter-Lab	40.1905, 69.5875, 20.0782

Details

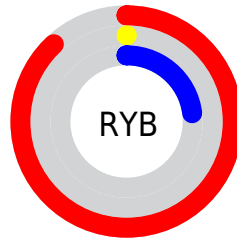
The XYZ color **31.5042, 16.1528, 5.4603** is a dark color, and the websafe version is hex **CC0033**. The color can be described as dark washed red. A complement of this color would be **33.5439, 56.0664, 45.1554**, and the grayscale version is **6.4400, 6.7754, 7.3784**.

A 20% lighter version of the original color is **47.5309, 29.7621, 16.6041**, and **14.3993, 7.4114, 1.2019** is the 20% darker color. If you saturate the color by 10%, you get **31.5030, 16.1523, 5.4551**, and if you desaturate by 10%, it is **32.2924, 16.9411, 8.1537**.

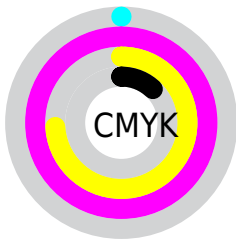
Distribution



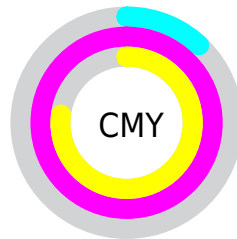
- Red (88%)
- Green (0%)
- Blue (23%)



- Red (88%)
- Yellow (0%)
- Blue (23%)



- Cyan (0%)
- Magenta (100%)
- Yellow (74%)
- Black (12%)





- Cyan (12%)
- Magenta (100%)
- Yellow (77%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.5042, 16.1528, 5.4603 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 31.5042, 16.1528, 5.4603 by changing the saturation by 10% instead.


 31.5042, 16.1528,
5.4603


 31.5042, 16.1528,
5.4603


300.6401,
230.2417, 163.2881

 21.1368, 9.6323,
2.4564


 61.4035, 36.8633,
17.2579


 13.3371, 5.1559,
0.8169


 81.6661, 51.8221,
26.8886

 7.7397, 2.3390,
0.0000


 105.9577, 70.3624,
39.5653

 3.9792, 0.7942,
0.0000

 134.6439, 92.8688,
55.7066

 1.6904, 0.0000,
0.0000

 168.0898,
119.7255, 75.7310

 0.4502, 0.0000,
0.0000

 206.6609,

 0.0000, 0.0000,

151.3169, 100.0570

0.0000

250.7225,
188.0275, 129.1032

■ 31.5042, 16.1528,
5.4603

■ 31.5042, 16.1528,
5.4603

■ 31.5030, 16.1523,
5.4551

■ 32.2924, 16.9411,
8.1537

■ 33.5703, 18.4717,
11.7406

■ 35.4592, 20.9703,
16.3136

■ 38.0316, 24.5668,
21.9442

■ 41.3494, 29.3708,
28.6966

■ 45.4672, 35.4784,
36.6296

■ 50.4344, 42.9761,
45.7976

■ 56.2963, 51.9428,
56.2515

■ 63.0950, 62.4515,
68.0394

Harmonies

Analogous

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



33.6563, 16.1528, 20.8775



31.5042, 16.1528, 5.4603



24.5831, 16.1528, 0.9800

Triad

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



31.5042, 16.1528, 5.4603



6.5492, 16.1528, 3.3478



14.2943, 16.1528, 93.8767

Complementary

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



31.5042, 16.1528, 5.4603



33.5439, 56.0664, 45.1554

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.



8.7816, 16.1528, 74.5056



31.5042, 16.1528, 5.4603



5.2874, 16.1528, 14.6630

Square

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



31.5042, 16.1528, 5.4603



10.1395, 16.1528, 0.5319



5.9540, 16.1528, 40.7158



22.1025, 16.1528, 82.9304

Rectangle

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



31.5042, 16.1528, 5.4603



19.0781, 16.1528, 0.1574



5.9540, 16.1528, 40.7158



12.1470, 16.1528, 90.4430

Sweetspot

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



31.5046, 16.1538, 5.4605



67.4871, 57.3910, 61.1251



28.8228, 13.3053, 71.5696



13.8112, 11.3237, 11.9248



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.



31.5046, 16.1538, 5.4605



42.2229, 21.6531, 7.1056



31.9823, 18.3308, 1.8541



13.8521, 13.7585, 14.9912



18.3771, 9.4178, 3.3855



1.3099, 0.6673, 0.4250

Inverse Universe

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



31.5046, 16.1538, 5.4605



42.2229, 21.6531, 7.1056



28.1592, 34.7903, 75.7516



13.8521, 13.7585, 14.9912



18.3771, 9.4178, 3.3855



1.3099, 0.6673, 0.4250

Previews

White Background



This preview shows how the XYZ color 31.5042, 16.1528, 5.4603 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 31.5042, 16.1528, 5.4603 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 31.5042, 16.1528, 5.4603

Background



This preview shows how black text looks on a background with the XYZ color 31.5042, 16.1528, 5.4603.



This preview shows how white text looks on a background with the XYZ color 31.5042, 16.1528,

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

31.5042, 16.1528, 5.4603

Protanopia

15.7637, 16.8603, 11.4404

Deuteranopia

17.0110, 16.6732, 4.9064



Tritanopia

30.8516, 16.3787, 2.0255

Trichromacy



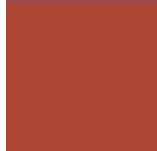
Original Color

31.5042, 16.1528, 5.4603



Protanomaly

17.9851, 12.6578, 8.3328



Deuteranomaly

19.7171, 13.2572, 4.5373



Tritanomaly

30.8496, 16.1286, 2.7835

Monochromacy



Original Color

31.5042, 16.1528, 5.4603



Achromatopsia

6.5089, 6.8478, 7.4573



Achromatomaly

11.1132, 7.1175, 6.2569

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.5042, 16.1528, 5.4603 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, 0, 58)` looks like.

```
.text, #text, p{  
    color:rgb(224, 0, 58)  
}
```

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, 0, 58) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(224, 0, 58) }
```

Border

The CSS property to change the border of an element to XYZ 31.5042, 16.1528, 5.4603 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, 0, 58) }
```


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

```
.border{ border-color:rgb(224, 0, 58) }
```

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

Here you see how a box with a 4 pixel `rgb(224, 0, 58)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(224, 0, 58); -webkit-box-  
shadow:4px 4px 4px 4px rgb(224, 0, 58);  
box-shadow:4px 4px 4px 4px rgb(224, 0, 58)  
}
```

Background

The CSS property to change the background color of an element to XYZ 31.5042, 16.1528, 5.4603 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(224, 0, 58) }
```

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

```
.background{ background-color: rgb(224, 0,  
58) }
```

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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