

Converting Colors

XYZ(31.8679, 16.6910, 3.1322)

Have a look what the booklet for
XYZ(31.8679, 16.6910, 3.1322)
contains.

XYZ(31.8679, 16.6910, 3.1322)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(31.8679, 16.6910,
3.1322)**

Conversions

Conversions Part 1

Format	Color
Hex	E21123
RGB	226, 17, 35
RGB Percent	89%, 7%, 14%
CMY	0.1137, 0.9332, 0.8627
CMYK	0.00, 0.92, 0.85, 0.11
HSL	355°, 86%, 48%
HSV	355°, 92%, 89%
XYZ	31.8679, 16.6910, 3.1322
YIQ	81.5430, 118.7860, 49.9060

Conversions

Conversions Part 2

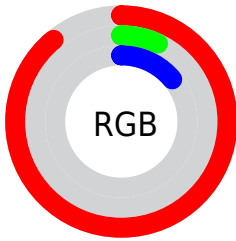
Format	Color
R_{YB}	226, 17, 35
Decimal	14815523
CIE _{Lab}	47.87, 72.06, 48.84
CIE _{LCh}	48, 87.051, 34.126
Yxy	16.6910, 0.6165, 0.3229
Android (android.graphics.Color)	4293005603 (0xFFE21123)
YUV	81.5430, -22.9457, 126.6888
Hunter-Lab	40.8546, 67.7401, 24.0526

Details

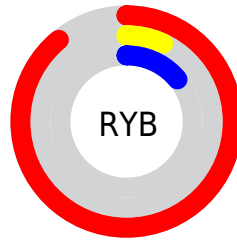
The XYZ color **31.8679, 16.6910, 3.1322** is a dark color, and the websafe version is hex **FF3333**. The color can be described as dark washed red. A complement of this color would be **38.8176, 59.0677, 69.0529**, and the grayscale version is **7.9603, 8.3749, 9.1203**.

A 20% lighter version of the original color is **46.8552, 30.0536, 11.3140**, and **14.6979, 7.5771, 0.6879** is the 20% darker color. If you saturate the color by 10%, you get **31.4851, 16.2171, 2.1062**, and if you desaturate by 10%, it is **32.8159, 17.9441, 5.4316**.

Distribution



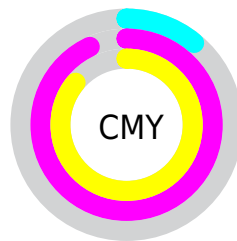
- Red (89%)
- Green (7%)
- Blue (14%)



- Red (89%)
- Yellow (7%)
- Blue (14%)



- Cyan (0%)
- Magenta (92%)
- Yellow (85%)
- Black (11%)





- Cyan (11%)
- Magenta (93%)
- Yellow (86%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 31.8679, 16.6910, 3.1322 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 31.8679, 16.6910, 3.1322 by changing the saturation by 10% instead.


 31.8679, 16.6910,
3.1322


 31.8679, 16.6910,
3.1322


302.2730,
233.3854, 138.0270


 21.4157, 10.0144,
1.1625


 61.9705, 37.7937,
11.9529


 13.5424, 5.4085,
0.0000


 82.3517, 52.9887,
19.6411


 7.8826, 2.4889,
0.0000


 106.7731, 71.7919,
30.0725

 4.0711, 0.8711,
0.0000

 135.6003, 94.5877,
43.6657

 1.7424, 0.0000,
0.0000

 169.1985,
121.7606, 60.8392


 0.4826, 0.0000,
0.0000


 207.9331,


 0.0000, 0.0000,


153.6949, 82.0115


0.0000


 252.1695,
190.7750, 107.6013


 31.8679, 16.6910,
3.1322


 31.8679, 16.6910,
3.1322


 31.4851, 16.2171,
2.1062

 32.8159, 17.9441,
5.4316

 34.4149, 20.1659,
8.9736

 36.7559, 23.5026,
13.9017

 39.9152, 28.0746,
20.3395

 43.9596, 33.9870,
28.3969

■ 48.9488, 41.3337,
38.1735

■ 54.9375, 50.1999,
49.7611

■ 61.9761, 60.6644,
63.2446

■ 70.1116, 72.8005,
78.7038

Harmonies

Analogous

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



36.1066, 16.6910, 15.2458



31.8679, 16.6910, 3.1322



23.3798, 16.6910, 0.2941

Triad

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



31.8679, 16.6910, 3.1322



5.8107, 16.6910, 5.1074



16.9719, 16.6910, 103.9667

Complementary

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



31.8679, 16.6910, 3.1322



38.8176, 59.0677, 69.0529

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.



10.1614, 16.6910, 91.0765



31.8679, 16.6910, 3.1322



5.0903, 16.6910, 21.4543

Square

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



31.8679, 16.6910, 3.1322



8.8306, 16.6910, 0.7320



6.3828, 16.6910, 54.6624



25.8935, 16.6910, 82.2941

Rectangle

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



31.8679, 16.6910, 3.1322



17.4549, 16.6910, 0.0000



6.3828, 16.6910, 54.6624



14.3734, 16.6910, 103.6005

Sweetspot

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



31.8683, 16.6921, 3.1324



67.5632, 59.0813, 56.4080



39.1337, 18.8868, 73.5340



13.7654, 11.6170, 10.7225



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.



31.8683, 16.6921, 3.1324



41.3841, 21.3176, 2.6886



36.0824, 25.4434, 3.5412



13.7548, 13.7196, 14.4791



17.9803, 9.2591, 1.2962



1.2631, 0.6485, 0.1782

Inverse Universe

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



31.8683, 16.6921, 3.1324



41.3841, 21.3176, 2.6886



23.6940, 25.0801, 75.5432



13.7548, 13.7196, 14.4791



17.9803, 9.2591, 1.2962



1.2631, 0.6485, 0.1782

Previews

White Background



This preview shows how the XYZ color 31.8679, 16.6910, 3.1322 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 31.8679, 16.6910, 3.1322 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 31.8679, 16.6910, 3.1322

Background



This preview shows how black text looks on a background with the XYZ color 31.8679, 16.6910, 3.1322.



This preview shows how white text looks on a background with the XYZ color 31.8679, 16.6910,

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

31.8679, 16.6910, 3.1322

Protanopia

15.5969, 17.0590, 6.2121

Deuteranopia

17.1457, 16.9570, 2.3694



Tritanopia

31.7113, 16.7667, 1.8815

Trichromacy



Original Color

31.8679, 16.6910, 3.1322

Protanomaly

18.4337, 13.5919, 4.4482

Deuteranomaly

20.1126, 14.1966, 2.0609

Tritanomaly

31.7405, 16.7196, 2.2161

Monochromacy



Original Color

31.8679, 16.6910, 3.1322

Achromatopsia

8.0200, 8.4376, 9.1886

Achromatomaly

12.2987, 8.4761, 5.9889

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.8679, 16.6910, 3.1322 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(226, 17, 35)` looks like.

```
.text, #text, p{  
    color:rgb(226, 17, 35)  
}
```

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(226, 17, 35) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(226, 17, 35) }
```

Border

The CSS property to change the border of an element to XYZ 31.8679, 16.6910, 3.1322 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(226, 17, 35) }
```


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

```
.border{ border-color:rgb(226, 17, 35) }
```

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

Here you see how a box with a 4 pixel `rgb(226, 17, 35)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(226, 17, 35); -webkit-box-  
shadow:4px 4px 4px 4px rgb(226, 17, 35);  
box-shadow:4px 4px 4px 4px rgb(226, 17,  
35) }
```

Background

The CSS property to change the background color of an element to XYZ 31.8679, 16.6910, 3.1322 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(226, 17, 35) }
```

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

```
.background{ background-color: rgb(226, 17,  
35) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor