

Converting Colors

XYZ(31.1024, 16.7866, 3.1224)

Have a look what the booklet for
XYZ(31.1024, 16.7866, 3.1224)
contains.

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Color

**XYZ(31.2640, 16.8912,
3.1259)**

Conversions

Conversions Part 1

Format	Color
Hex	DF2122
RGB	223, 33, 34
RGB Percent	87%, 13%, 13%
CMY	0.1255, 0.8705, 0.8667
CMYK	0.00, 0.85, 0.85, 0.13
HSL	360°, 75%, 50%
HSV	360°, 85%, 87%
XYZ	31.2640, 16.8912, 3.1259
YIQ	89.9240, 112.9190, 40.5910

Conversions

Conversions Part 2

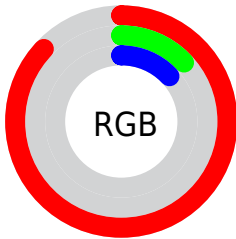
Format	Color
R_{YB}	223, 33, 34
Decimal	14623010
CIE Lab	48.12, 68.76, 49.32
CIE LCh	48, 84.615, 35.650
Yxy	16.8912, 0.6097, 0.3294
Android (android.graphics.Color)	4292813090 (0xFFDF2122)
YUV	89.9240, -27.5705, 116.7077
Hunter-Lab	41.0989, 63.8621, 24.2598

Details

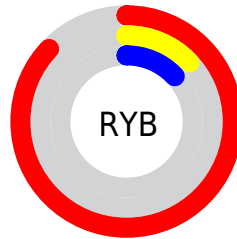
The XYZ color **31.2640, 16.8912, 3.1259** is a dark color, and the websafe version is hex **FF3333**. The color can be described as dark washed red. A complement of this color would be **40.2029, 58.3736, 78.2699**, and the grayscale version is **9.7456, 10.2531, 11.1657**.

A 20% lighter version of the original color is **47.3789, 31.1614, 11.3022**, and **14.1006, 7.2691, 0.6599** is the 20% darker color. If you saturate the color by 10%, you get **30.6129, 15.9469, 1.8065**, and if you desaturate by 10%, it is **32.5310, 18.7382, 5.6675**.

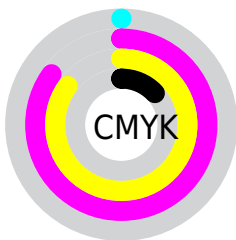
Distribution



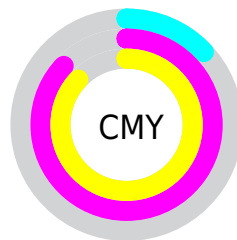
- Red (87%)
- Green (13%)
- Blue (13%)



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



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





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

Brightness & Saturation Gradients


These gradients show how the XYZ color 31.2640, 16.8912, 3.1259 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 31.2640, 16.8912, 3.1259 by changing the saturation by 10% instead.


 31.2640, 16.8912,
3.1259


 31.2640, 16.8912,
3.1259


299.5579,
234.5446, 137.9483


 20.9528, 10.1569,
1.1593


 61.0285, 38.1386,
11.9376


 13.2017, 5.5031,
0.0000


 81.2125, 53.4206,
19.6197


 7.6456, 2.5454,
0.0000


 105.4181, 72.3206,
30.0440

 3.9189, 0.8993,
0.0000

 134.0107, 95.2229,
43.6292

 1.6564, 0.0000,
0.0000

 167.3556,
122.5122, 60.7936


 0.4287, 0.0000,
0.0000


 205.8182,


 0.0000, 0.0000,


154.5726, 81.9559


0.0000


 249.7639,
191.7886, 107.5347


 31.2640, 16.8912,
3.1259


 31.2640, 16.8912,
3.1259


 30.6129, 15.9469,
1.8065


 32.5310, 18.7382,
5.6675

 30.4375, 15.6904,
1.4573

 34.5172, 21.6384,
9.6350

 37.3081, 25.7180,
15.1958

 40.9769, 31.0849,
22.4942

 45.5887, 37.8347,
31.6581

■ 51.2025, 46.0540,
42.8036

■ 57.8723, 55.8222,
56.0372

■ 65.6485, 67.2132,
71.4579

■ 74.5779, 80.2961,
89.1585

Harmonies

Analogous

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



35.6521, 16.8912, 14.5395



31.2640, 16.8912, 3.1259



22.9337, 16.8912, 0.4112

Triad

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



31.2640, 16.8912, 3.1259



6.0196, 16.8912, 5.8969



17.5505, 16.8912, 100.5471

Complementary

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



31.2640, 16.8912, 3.1259



40.2029, 58.3736, 78.2699

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.



10.7102, 16.8912, 89.9239



31.2640, 16.8912, 3.1259



5.3976, 16.8912, 22.8703

Square

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



31.2640, 16.8912, 3.1259



8.9029, 16.8912, 0.9940



6.8064, 16.8912, 55.6151



26.2730, 16.8912, 78.4711

Rectangle

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



31.2640, 16.8912, 3.1259



17.1991, 16.8912, 0.0000



6.8064, 16.8912, 55.6151



14.9620, 16.8912, 100.8065

Sweetspot

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



31.2644, 16.8923, 3.1261



68.5629, 61.2022, 56.3673



43.3283, 21.6062, 71.6982



14.0836, 12.2334, 10.8904



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.



31.2644, 16.8923, 3.1261



41.2472, 21.2629, 1.9679



38.0199, 30.4256, 5.3093



13.7101, 13.7017, 14.2437



17.8982, 9.2263, 0.8635



1.2416, 0.6399, 0.0652

Inverse Universe

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



31.2644, 16.8923, 3.1261



41.2472, 21.2629, 1.9679



22.0871, 21.9315, 72.8805



13.7101, 13.7017, 14.2437



17.8982, 9.2263, 0.8635



1.2416, 0.6399, 0.0652

Previews

White Background



This preview shows how the XYZ color 31.2640, 16.8912, 3.1259 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 31.2640, 16.8912, 3.1259 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 31.2640, 16.8912, 3.1259

Background



This preview shows how black text looks on a background with the XYZ color 31.2640, 16.8912, 3.1259.



This preview shows how white text looks on a background with the XYZ color 31.2640, 16.8912,

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

31.2640, 16.8912, 3.1259

Protanopia

15.6754, 17.1077, 5.8441

Deuteranopia

17.3227, 17.0483, 2.3776



Tritanopia

31.2508, 16.9310, 2.9172

Trichromacy



Original Color

31.2640, 16.8912, 3.1259

Protanomaly

18.8459, 14.4808, 4.3866

Deuteranomaly

20.4643, 14.9101, 2.1472

Tritanomaly

31.2642, 16.9363, 2.9877

Monochromacy



Original Color

31.2640, 16.8912, 3.1259

Achromatopsia

9.7181, 10.2242, 11.1341

Achromatomaly

13.7148, 10.1017, 7.0213

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.2640, 16.8912, 3.1259 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(223, 33, 34)` looks like.

```
.text, #text, p{  
    color:rgb(223, 33, 34)  
}
```

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(223, 33, 34) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(223, 33, 34) }
```

Border

The CSS property to change the border of an element to XYZ 31.2640, 16.8912, 3.1259 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(223, 33, 34) }
```


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

```
.border{ border-color:rgb(223, 33, 34) }
```

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

Here you see how a box with a 4 pixel `rgb(223, 33, 34)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(223, 33, 34); -webkit-box-  
shadow:4px 4px 4px 4px rgb(223, 33, 34);  
box-shadow:4px 4px 4px 4px rgb(223, 33,  
34) }
```

Background

The CSS property to change the background color of an element to XYZ 31.2640, 16.8912, 3.1259 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(223, 33, 34) }
```

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

```
.background{ background-color: rgb(223, 33,  
34) }
```

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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