

Converting Colors

XYZ(31.4668, 16.8324, 7.6039)

Have a look what the booklet for
XYZ(31.4668, 16.8324, 7.6039)
contains.

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Color

**XYZ(31.4461, 16.8071,
7.5479)**

Conversions

Conversions Part 1

Format	Color
Hex	DD1F47
RGB	221, 31, 71
RGB Percent	87%, 12%, 28%
CMY	0.1333, 0.8783, 0.7216
CMYK	0.00, 0.86, 0.68, 0.13
HSL	347°, 75%, 49%
HSV	347°, 86%, 87%
XYZ	31.4461, 16.8071, 7.5479
YIQ	92.3700, 100.4000, 52.7200

Conversions

Conversions Part 2

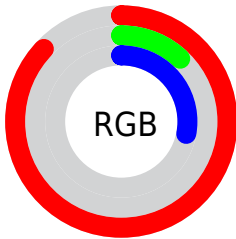
Format	Color
RYB	221, 31, 71
Decimal	14491463
CIELab	48.02, 69.89, 28.21
CIElCh	48, 75.366, 21.985
Yxy	16.8071, 0.5635, 0.3012
Android (android.graphics.Color)	4292681543 (0xFFDD1F47)
YUV	92.3700, -10.5354, 112.8085
Hunter-Lab	40.9965, 65.1736, 17.7816

Details

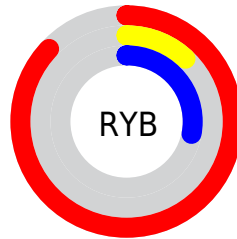
The XYZ color **31.4461, 16.8071, 7.5479** is a dark color, and the websafe version is hex **CC0033**. The color can be described as dark washed red. A complement of this color would be **34.7648, 55.3413, 52.5775**, and the grayscale version is **10.2680, 10.8027, 11.7641**.

A 20% lighter version of the original color is **49.1269, 31.7063, 20.9834**, and **14.3102, 7.3529, 1.7636** is the 20% darker color. If you saturate the color by 10%, you get **30.5708, 15.8279, 4.8788**, and if you desaturate by 10%, it is **32.8774, 18.6415, 11.1958**.

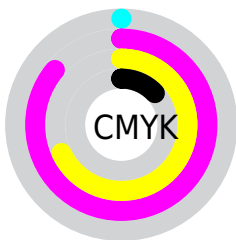
Distribution



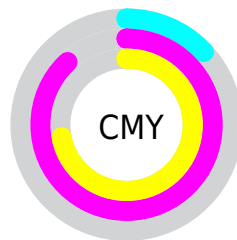
- Red (87%)
- Green (12%)
- Blue (28%)



- Red (87%)
- Yellow (12%)
- Blue (28%)



- Cyan (0%)
- Magenta (86%)
- Yellow (68%)
- Black (13%)





- Cyan (13%)
- Magenta (88%)
- Yellow (72%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 31.4461, 16.8071, 7.5479 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 31.4461, 16.8071, 7.5479 by changing the saturation by 10% instead.


 31.4461, 16.8071,
7.5479


 31.4461, 16.8071,
7.5479


300.3786,
234.0583, 181.9418


 21.0923, 10.0971,
3.7235


 61.3128, 37.9938,
21.5986


 13.3043, 5.4634,
1.4749


 81.5564, 53.2393,
32.6619

 7.7169, 2.5216,
0.1991


 105.8273, 72.0987,
46.9753

 3.9646, 0.8874,
0.0000

 134.4908, 94.9564,
64.9573

 1.6821, 0.0000,
0.0000

 167.9124,
122.1968, 87.0264

 0.4450, 0.0000,
0.0000

 206.4573,

 0.0000, 0.0000,

154.2043, 113.6011

0.0000

250.4909,
191.3634, 145.1001

■ 31.4461, 16.8071,
7.5479

■ 31.4461, 16.8071,
7.5479

■ 30.5708, 15.8279,
4.8788

■ 32.8774, 18.6415,
11.1958

■ 30.3217, 15.5733,
4.0451

■ 34.9460, 21.4729,
15.9109

■ 37.7201, 25.4200,
21.7719

■ 41.2585, 30.5835,
28.8491

■ 45.6135, 37.0533,
37.2072

■ 50.8330, 44.9105,
46.9064

■ 56.9609, 54.2297,
58.0025

■ 64.0383, 65.0800,
70.5487

■ 72.1035, 77.5262,
84.5949

Harmonies

Analogous

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



32.7581, 16.8071, 24.0406



31.4461, 16.8071, 7.5479



25.4682, 16.8071, 1.8050

Triad

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



31.4461, 16.8071, 7.5479



7.7220, 16.8071, 3.5607



14.2181, 16.8071, 86.1789

Complementary

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



31.4461, 16.8071, 7.5479



34.7648, 55.3413, 52.5775

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.



9.1932, 16.8071, 66.5725



31.4461, 16.8071, 7.5479



6.2025, 16.8071, 13.5549

Square

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



31.4461, 16.8071, 7.5479



11.5584, 16.8071, 0.9019



6.6515, 16.8071, 36.2271



21.3930, 16.8071, 79.7176

Rectangle

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



31.4461, 16.8071, 7.5479



20.3744, 16.8071, 0.7771



6.6515, 16.8071, 36.2271



12.2588, 16.8071, 82.1101

Sweetspot

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



31.4465, 16.8081, 7.5481



70.1112, 61.8215, 64.5200



32.3263, 15.8854, 69.7685



14.4395, 12.3758, 12.7648



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.



31.4465, 16.8081, 7.5481



41.8979, 21.5232, 5.3945



33.3029, 21.9444, 3.7783



13.1676, 13.0961, 14.1438



17.6481, 9.0603, 2.5272



1.1751, 0.5997, 0.3312

Inverse Universe

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



31.4465, 16.8081, 7.5481



41.8979, 21.5232, 5.3945



27.4672, 33.2128, 73.3691



13.1676, 13.0961, 14.1438



17.6481, 9.0603, 2.5272



1.1751, 0.5997, 0.3312

Previews

White Background



This preview shows how the XYZ color 31.4461, 16.8071, 7.5479 looks on a white background.

Color Contrast Check

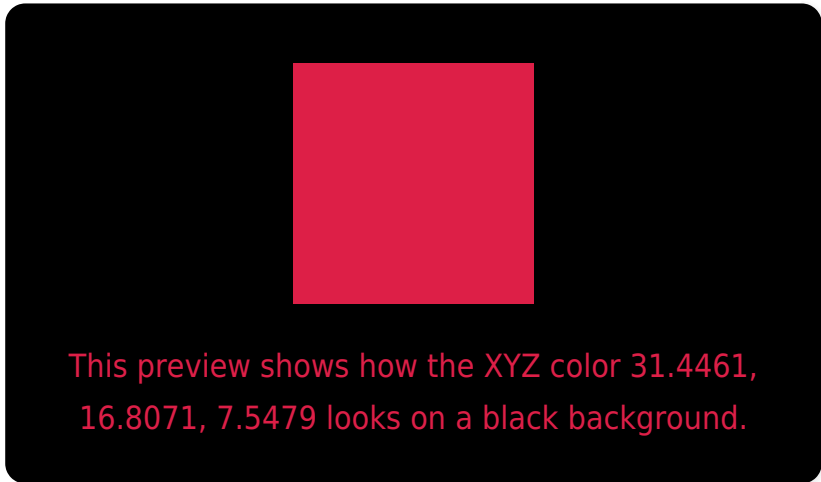
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



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 31.4461, 16.8071, 7.5479

Background



This preview shows how black text looks on a background with the XYZ color 31.4461, 16.8071, 7.5479.

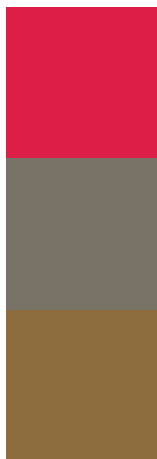


This preview shows how white text looks on a background with the XYZ color 31.4461, 16.8071,

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

31.4461, 16.8071, 7.5479

Protanopia

16.2747, 17.2138, 15.0352

Deuteranopia

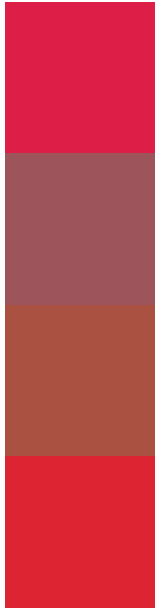
17.2954, 16.9369, 6.7725



Tritanopia

30.5906, 16.8066, 3.4654

Trichromacy



Original Color

31.4461, 16.8071, 7.5479

Protanomaly

18.9633, 14.2641, 11.6513

Deuteranomaly

20.4741, 14.8126, 6.7810

Tritanomaly

30.7218, 16.7077, 4.6233

Monochromacy



Original Color

31.4461, 16.8071, 7.5479

Achromatopsia

10.1725, 10.7023, 11.6548

Achromatomaly

14.4379, 10.5094, 9.6551

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.4461, 16.8071, 7.5479 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(221, 31, 71)` looks like.

```
.text, #text, p{  
    color:rgb(221, 31, 71)  
}
```

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(221, 31, 71) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(221, 31, 71) }
```

Border

The CSS property to change the border of an element to XYZ 31.4461, 16.8071, 7.5479 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(221, 31, 71) }
```


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

```
.border{ border-color:rgb(221, 31, 71) }
```

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

Here you see how a box with a 4 pixel `rgb(221, 31, 71)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(221, 31, 71); -webkit-box-  
shadow:4px 4px 4px 4px rgb(221, 31, 71);  
box-shadow:4px 4px 4px 4px rgb(221, 31,  
71) }
```

Background

The CSS property to change the background color of an element to XYZ 31.4461, 16.8071, 7.5479 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(221, 31, 71) }
```

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

```
.background{ background-color: rgb(221, 31,  
71) }
```

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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