

Converting Colors

XYZ(31.9884, 16.5056, 10.5167)

Have a look what the booklet for
XYZ(31.9884, 16.5056, 10.5167)
contains.

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Color

**XYZ(31.9884, 16.5056,
10.5167)**

Conversions

Conversions Part 1

Format	Color
Hex	DE0D57
RGB	222, 13, 87
RGB Percent	87%, 5%, 34%
CMY	0.1294, 0.9488, 0.6588
CMYK	0.00, 0.94, 0.61, 0.13
HSL	339°, 89%, 46%
HSV	339°, 94%, 87%
XYZ	31.9884, 16.5056, 10.5167
YIQ	83.9270, 100.8100, 67.3220

Conversions

Conversions Part 2

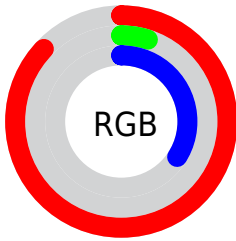
Format	Color
RYB	222, 13, 87
Decimal	14552407
CIELab	47.63, 73.52, 17.95
CIElCh	48, 75.680, 13.716
Yxy	16.5056, 0.5421, 0.2797
Android (android.graphics.Color)	4292742487 (0xFFDE0D57)
YUV	83.9270, 1.5150, 121.0900
Hunter-Lab	40.6271, 69.4475, 13.0912

Details

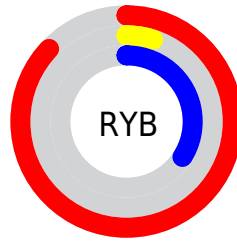
The XYZ color **31.9884, 16.5056, 10.5167** is a dark color, and the websafe version is hex **FF3366**. The color can be described as dark washed red. A complement of this color would be **31.6366, 54.4676, 36.8813**, and the grayscale version is **8.3992, 8.8366, 9.6231**.

A 20% lighter version of the original color is **49.6866, 31.0430, 26.6657**, and **14.7341, 7.5453, 2.9653** is the 20% darker color. If you saturate the color by 10%, you get **31.5197, 16.0878, 8.7597**, and if you desaturate by 10%, it is **33.0981, 17.6923, 14.0707**.

Distribution



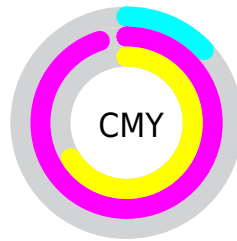
- Red (87%)
- Green (5%)
- Blue (34%)



- Red (87%)
- Yellow (5%)
- Blue (34%)



- Cyan (0%)
- Magenta (94%)
- Yellow (61%)
- Black (13%)





- Cyan (13%)
- Magenta (95%)
- Yellow (66%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.9884, 16.5056, 10.5167 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 31.9884, 16.5056, 10.5167 by changing the saturation by 10% instead.


 31.9884, 16.5056,
10.5167


 31.9884, 16.5056,
10.5167


302.8126,
232.3070, 204.9381


 21.5081, 9.8826,
5.6328


 62.1582, 37.4738,
27.3858


 13.6105, 5.3212,
2.5580


 82.5785, 52.5877,
40.2081


 7.9302, 2.4369,
0.8706

 107.0428, 71.3008,
56.5136

 4.1017, 0.8448,
0.0000

 135.9165, 93.9974,
76.7208

 1.7598, 0.0000,
0.0000

 169.5650,
121.0620, 101.2483

 0.4933, 0.0000,
0.0000

 208.3536,

 0.0000, 0.0000,

152.8788, 130.5147

0.0000

252.6477,
189.8323, 164.9384

■ 31.9884, 16.5056,
10.5167

■ 31.9884, 16.5056,
10.5167

■ 31.5197, 16.0878,
8.7597

■ 33.0981, 17.6923,
14.0707

■ 34.7433, 19.7536,
18.4089

■ 36.9979, 22.8274,
23.5852

■ 39.9226, 27.0267,
29.6470

■ 43.5705, 32.4493,
36.6377

■ 47.9889, 39.1821,
44.5974

■ 53.2213, 47.3042,
53.5636

■ 59.3075, 56.8883,
63.5717

■ 66.2848, 68.0021,
74.6553

Harmonies

Analogous

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



31.7469, 16.5056, 30.5474



31.9884, 16.5056, 10.5167



27.0708, 16.5056, 2.5749

Triad

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



31.9884, 16.5056, 10.5167



8.3159, 16.5056, 2.2655



12.3212, 16.5056, 82.5295

Complementary

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



31.9884, 16.5056, 10.5167



31.6366, 54.4676, 36.8813

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.



8.0493, 16.5056, 57.8761



31.9884, 16.5056, 10.5167



6.2327, 16.5056, 9.4304

Square

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



31.9884, 16.5056, 10.5167



12.8058, 16.5056, 0.6013



6.1516, 16.5056, 28.3119



18.9733, 16.5056, 83.7268

Rectangle

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



31.9884, 16.5056, 10.5167



22.1700, 16.5056, 0.9978



6.1516, 16.5056, 28.3119



10.6115, 16.5056, 76.1972

Sweetspot

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



31.9888, 16.5066, 10.5169



69.7901, 59.9721, 68.1350



25.0739, 11.6175, 70.0276



14.2848, 11.8248, 13.4578



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.



31.9888, 16.5066, 10.5169



43.0962, 22.0025, 11.7046



30.9866, 17.1380, 2.0571



13.9066, 13.7803, 15.2783



18.7702, 9.5751, 5.4558



1.3426, 0.6803, 0.5969

Inverse Universe

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



31.9888, 16.5066, 10.5169



43.0962, 22.0025, 11.7046



32.6741, 44.0052, 75.8785



13.9066, 13.7803, 15.2783



18.7702, 9.5751, 5.4558



1.3426, 0.6803, 0.5969

Previews

White Background



This preview shows how the XYZ color 31.9884, 16.5056, 10.5167 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 31.9884, 16.5056, 10.5167 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

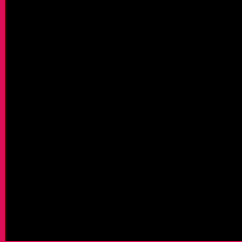
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 31.9884, 16.5056, 10.5167

Background



This preview shows how black text looks on a background with the XYZ color 31.9884, 16.5056, 10.5167.



This preview shows how white text looks on a background with the XYZ color 31.9884, 16.5056,

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

31.9884, 16.5056, 10.5167

Protanopia

16.5933, 17.0517, 22.1554

Deuteranopia

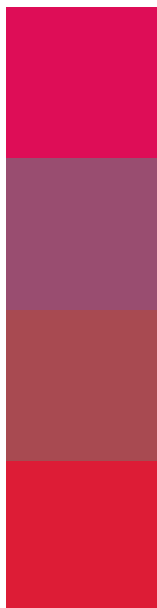
17.1603, 16.8057, 9.5471



Tritanopia

30.4494, 16.5987, 3.1891

Trichromacy



Original Color

31.9884, 16.5056, 10.5167

Protanomaly

18.7154, 13.2499, 16.9003

Deuteranomaly

20.0824, 13.8165, 9.3930

Tritanomaly

30.8999, 16.4690, 5.0403

Monochromacy



Original Color

31.9884, 16.5056, 10.5167

Achromatopsia

8.4267, 8.8656, 9.6546

Achromatomaly

12.9843, 8.7503, 9.5990

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.9884, 16.5056, 10.5167 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(222, 13, 87)` looks like.

```
.text, #text, p{  
    color:rgb(222, 13, 87)  
}
```

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(222, 13, 87) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 13, 87) }
```

Border

The CSS property to change the border of an element to XYZ 31.9884, 16.5056, 10.5167 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(222, 13, 87) }
```


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

```
.border{ border-color:rgb(222, 13, 87) }
```

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

Here you see how a box with a 4 pixel rgb(222, 13, 87) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 13, 87); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 13, 87);  
box-shadow:4px 4px 4px 4px rgb(222, 13,  
87) }
```

Background

The CSS property to change the background color of an element to XYZ 31.9884, 16.5056, 10.5167 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 13, 87) }
```

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

```
.background{ background-color: rgb(222, 13,  
87) }
```

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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