

Converting Colors

XYZ(31.7249, 16.7474, 12.4213)

Have a look what the booklet for
XYZ(31.7249, 16.7474, 12.4213)
contains.

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Color

**XYZ(31.6942, 16.7168,
12.3827)**

Conversions

Conversions Part 1

Format	Color
Hex	DB1C5F
RGB	219, 28, 95
RGB Percent	86%, 11%, 37%
CMY	0.1412, 0.8901, 0.6274
CMYK	0.00, 0.87, 0.57, 0.14
HSL	339°, 77%, 48%
HSV	339°, 87%, 86%
XYZ	31.6942, 16.7168, 12.3827
YIQ	92.7470, 92.3290, 61.3290

Conversions

Conversions Part 2

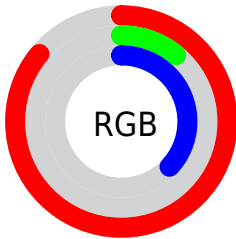
Format	Color
RYB	219, 28, 95
Decimal	14359647
CIELab	47.90, 71.29, 13.28
CIElCh	48, 72.513, 10.550
Yxy	16.7168, 0.5213, 0.2750
Android (android.graphics.Color)	4292549727 (0xFFDB1C5F)
YUV	92.7470, 1.1107, 110.7239
Hunter-Lab	40.8862, 66.8190, 10.6639

Details

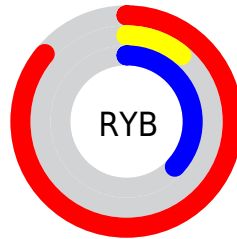
The XYZ color **31.6942, 16.7168, 12.3827** is a dark color, and the websafe version is hex **CC3366**. The color can be described as dark washed red. A complement of this color would be **31.4802, 53.1776, 38.3203**, and the grayscale version is **10.3306, 10.8686, 11.8359**.

A 20% lighter version of the original color is **50.8127, 32.2280, 30.3306**, and **14.4804, 7.3984, 3.6824** is the 20% darker color. If you saturate the color by 10%, you get **30.7567, 15.7837, 9.1671**, and if you desaturate by 10%, it is **33.1227, 18.4435, 16.3443**.

Distribution



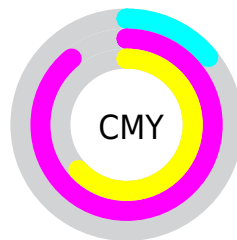
- Red (86%)
- Green (11%)
- Blue (37%)



- Red (86%)
- Yellow (11%)
- Blue (37%)



- Cyan (0%)
- Magenta (87%)
- Yellow (57%)
- Black (14%)





- Cyan (14%)
- Magenta (89%)
- Yellow (63%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 31.6942, 16.7168, 12.3827 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 31.6942, 16.7168, 12.3827 by changing the saturation by 10% instead.


 31.6942, 16.7168,
12.3827


 31.6942, 16.7168,
12.3827


301.4940,
233.5351, 217.9897


 21.2824, 10.0328,
6.8792


 61.6998, 37.8382,
30.8650


 13.4443, 5.4207,
3.3094


 82.0244, 53.0444,
44.6808


 7.8143, 2.4962,
1.2547


 106.3840, 71.8601,
62.1045

 4.0271, 0.8747,
0.0242

 135.1439, 94.6697,
83.5546

 1.7175, 0.0000,
0.0000

 168.6694,
121.8576, 109.4496

 0.4672, 0.0000,
0.0000

 207.3261,

 0.0000, 0.0000,

153.8082, 140.2081

0.0000

251.4792,
190.9059, 176.2487

■ 31.6942, 16.7168,
12.3827

■ 31.6942, 16.7168,
12.3827

■ 30.7567, 15.7837,
9.1671

■ 33.1227, 18.4435,
16.3443

■ 30.5459, 15.5931,
8.3850

■ 35.1219, 21.1129,
21.1075

■ 37.7541, 24.8413,
26.7204

■ 41.0727, 29.7269,
33.2265

■ 45.1253, 35.8570,
40.6660

■ 49.9547, 43.3101,
49.0762

■ 55.6007, 52.1582,
58.4923

■ 62.1001, 62.4683,
68.9476

■ 69.4875, 74.3030,
80.4739

Harmonies

Analogous

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



30.9022, 16.7168, 32.9836



31.6942, 16.7168, 12.3827



27.4587, 16.7168, 3.4086

Triad

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



31.6942, 16.7168, 12.3827



9.0472, 16.7168, 2.2738



12.0658, 16.7168, 77.4724

Complementary

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



31.6942, 16.7168, 12.3827



31.4802, 53.1776, 38.3203

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.



8.1338, 16.7168, 52.9894



31.6942, 16.7168, 12.3827



6.7503, 16.7168, 8.6655

Square

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



31.6942, 16.7168, 12.3827



13.7002, 16.7168, 0.7901



6.4694, 16.7168, 25.6067



18.2989, 16.7168, 81.3258

Rectangle

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



31.6942, 16.7168, 12.3827



22.8919, 16.7168, 1.4159



6.4694, 16.7168, 25.6067



10.4830, 16.7168, 70.8599

Sweetspot

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



31.6946, 16.7178, 12.3829



71.2508, 62.2773, 70.5211



25.5917, 12.3332, 68.0491



14.7049, 12.4819, 14.1622



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.



31.6946, 16.7178, 12.3829



43.0613, 21.9885, 11.5211



30.7185, 17.7347, 2.9041



13.2437, 13.1266, 14.5444



18.1595, 9.2648, 5.2197



1.2165, 0.6162, 0.5489

Inverse Universe

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



31.6946, 16.7178, 12.3829



43.0613, 21.9885, 11.5211



32.4543, 43.7389, 73.7494



13.2437, 13.1266, 14.5444



18.1595, 9.2648, 5.2197



1.2165, 0.6162, 0.5489

Previews

White Background



This preview shows how the XYZ color 31.6942, 16.7168, 12.3827 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 31.6942, 16.7168, 12.3827 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 31.6942, 16.7168, 12.3827

Background



This preview shows how black text looks on a background with the XYZ color 31.6942, 16.7168, 12.3827.



This preview shows how white text looks on a background with the XYZ color 31.6942, 16.7168,

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

31.6942, 16.7168, 12.3827

Protanopia

16.9460, 17.1634, 25.3414

Deuteranopia

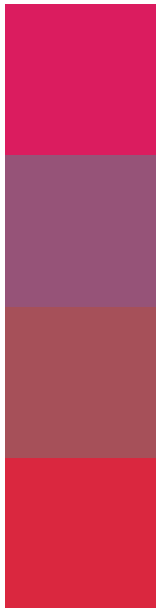
17.2473, 16.9746, 11.1715



Tritanopia

30.0273, 16.8179, 4.1462

Trichromacy



Original Color

31.6942, 16.7168, 12.3827

Protanomaly

19.0611, 14.0266, 19.4721

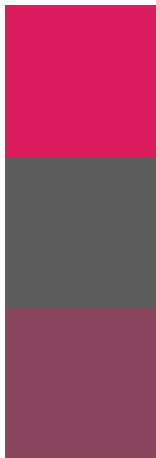
Deuteranomaly

20.3977, 14.5656, 11.1876

Tritanomaly

30.5362, 16.7153, 6.3196

Monochromacy



Original Color

31.6942, 16.7168, 12.3827

Achromatopsia

10.4043, 10.9462, 11.9204

Achromatomaly

14.7960, 10.5534, 11.8468

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.6942, 16.7168, 12.3827 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(219, 28, 95)` looks like.

```
.text, #text, p{  
    color:rgb(219, 28, 95)  
}
```

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(219, 28, 95) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(219, 28, 95) }
```

Border

The CSS property to change the border of an element to XYZ 31.6942, 16.7168, 12.3827 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(219, 28, 95) }
```


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

```
.border{ border-color:rgb(219, 28, 95) }
```

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

Here you see how a box with a 4 pixel `rgb(219, 28, 95)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(219, 28, 95); -webkit-box-  
shadow:4px 4px 4px 4px rgb(219, 28, 95);  
box-shadow:4px 4px 4px 4px rgb(219, 28,  
95) }
```

Background

The CSS property to change the background color of an element to XYZ 31.6942, 16.7168, 12.3827 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(219, 28, 95) }
```

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

```
.background{ background-color: rgb(219, 28,  
95) }
```

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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