

# Converting Colors

XYZ(32.0114, 18.3354, 5.2497)

Have a look what the booklet for  
XYZ(32.0114, 18.3354, 5.2497)  
contains.

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# Color

**XYZ(32.0399, 18.3328,  
5.2181)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DE3535
RGB	222, 53, 53
RGB Percent	87%, 21%, 21%
CMY	0.1294, 0.7921, 0.7922
CMYK	0.00, 0.76, 0.76, 0.13
HSL	0°, 72%, 54%
HSV	0°, 76%, 87%
XYZ	32.0399, 18.3328, 5.2181
YIQ	103.5310, 100.7240, 35.8280

# Conversions

## Conversions Part 2

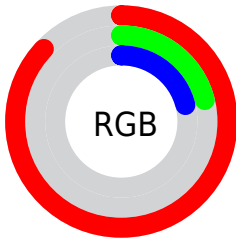
Format	Color
<a href="#">RYB</a>	<a href="#">222, 53, 53</a>
Decimal	<a href="#">14562613</a>
CIELab	<a href="#">49.90, 63.94, 40.97</a>
CIElCh	<a href="#">50, 75.940, 32.650</a>
Yxy	<a href="#">18.3328, 0.5764, 0.3298</a>
Android (android.graphics.Color)	<a href="#">4292752693 (0xFFDE3535)</a>
YUV	<a href="#">103.5310, -24.9118, 103.8973</a>
Hunter-Lab	<a href="#">42.8168, 58.6424, 22.7461</a>

# Details

The XYZ color **32.0399, 18.3328, 5.2181** is a dark color, and the websafe version is hex **CC3333**. The color can be described as dark muted red. A complement of this color would be **40.7710, 58.2668, 78.2045**, and the grayscale version is **13.0798, 13.7609, 14.9857**.

A 20% lighter version of the original color is **49.4454, 33.9904, 16.0113**, and **14.1499, 7.2888, 0.9195** is the 20% darker color. If you saturate the color by 10%, you get **30.8539, 16.5977, 2.8601**, and if you desaturate by 10%, it is **33.9313, 21.1011, 8.9773**.

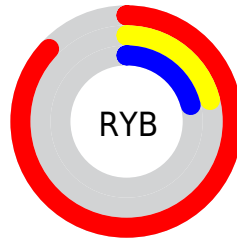
# Distribution



Red (87%)

Green (21%)

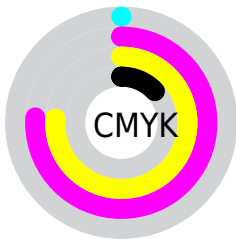
Blue (21%)



Red (87%)

Yellow (21%)

Blue (21%)

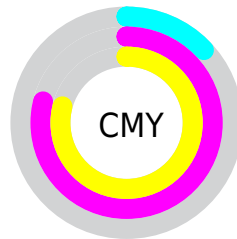


Cyan (0%)

Magenta (76%)

Yellow (76%)

Black (13%)



Cyan (13%)

Magenta (79%)


Yellow (79%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 32.0399, 18.3328, 5.2181 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 32.0399, 18.3328, 5.2181 by changing the saturation by 10% instead.




 32.0399, 18.3328,  
5.2181


 32.0399, 18.3328,  
5.2181


303.0430,  
242.7402, 160.9307


 21.5477, 11.1892,  
2.3148


 62.2384, 40.6036,  
16.7337


 13.6397, 6.1942,  
0.7395


 82.6754, 56.4996,  
26.1832

 7.9505, 2.9635,  
0.0000


 107.1580, 76.0818,  
38.6518

 4.1148, 1.1127,  
0.0000

 136.0516, 99.7346,  
54.5580

 1.7673, 0.0000,  
0.0000

 169.7216,  
127.8425, 74.3205

 0.4978, 0.0000,  
0.0000

 208.5332,

 0.0000, 0.0000,

160.7898, 98.3578

0.0000

252.8519,  
198.9609, 127.0883

■ 32.0399, 18.3328,  
5.2181

■ 32.0399, 18.3328,  
5.2181

■ 30.8539, 16.5977,  
2.8601

■ 33.9313, 21.1011,  
8.9773

■ 30.2646, 15.7354,  
1.6891


■ 36.6130, 25.0253,  
14.3082

■ 30.1242, 15.5298,  
1.4098


■ 40.1594, 30.2147,  
21.3579


■ 44.6357, 36.7649,  
30.2566

■ 50.1012, 44.7625,  
41.1217

 56.6100, 54.2867,  
54.0610

 64.2124, 65.4111,  
69.1745

 72.9555, 78.2046,  
86.5556

 82.8835, 92.7319,  
106.2925

# Harmonies

## Analogous

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



35.4461, 18.3328, 18.1675



32.0399, 18.3328, 5.2181



24.6666, 18.3328, 1.3391

# Triad

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



32.0399, 18.3328, 5.2181



7.7257, 18.3328, 6.6412



18.0789, 18.3328, 92.5810

# Complementary

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



32.0399, 18.3328, 5.2181



40.7710, 58.2668, 78.2045

# 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.



11.7603, 18.3328, 80.7953



32.0399, 18.3328, 5.2181



6.8605, 18.3328, 21.8695

# Square

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



32.0399, 18.3328, 5.2181



10.9201, 18.3328, 1.6684



8.1075, 18.3328, 50.2780



26.1046, 18.3328, 76.1861



# Rectangle

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



32.0399, 18.3328, 5.2181



19.2746, 18.3328, 0.7491



8.1075, 18.3328, 50.2780



15.6973, 18.3328, 91.7876

# Sweetspot

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



32.0403, 18.3339, 5.2184



71.0636, 64.9013, 61.2154



44.5819, 23.3497, 71.2640



14.5601, 12.9398, 11.8097



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.



32.0403, 18.3339, 5.2184



41.6999, 21.9331, 2.8437



39.7836, 33.8204, 7.7995



13.7074, 13.7007, 14.2288



17.8933, 9.2245, 0.8374



1.2403, 0.6394, 0.0581



# Inverse Universe

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



40.7710, 58.2668, 78.2045



54.1571, 78.9113, 106.9848



23.6699, 24.0647, 72.5042



14.1165, 15.5722, 17.6494



23.3447, 34.1589, 46.4113



1.6181, 2.3678, 3.2170



# Previews

## White Background



This preview shows how the XYZ color 32.0399, 18.3328, 5.2181 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 32.0399, 18.3328, 5.2181 looks on a black 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

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

**XYZ 32.0399, 18.3328, 5.2181**

## **Background**



This preview shows how black text looks on a background with the XYZ color 32.0399, 18.3328, 5.2181.



This preview shows how white text looks on a background with the XYZ color 32.0399, 18.3328,



# 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

32.0399, 18.3328, 5.2181

### Protanopia

17.0388, 18.4339, 9.1386

### Deuteranopia

18.6998, 18.3599, 4.6561



## Tritanopia

32.0632, 18.3421, 5.3405

# Trichromacy



## Original Color

32.0399, 18.3328, 5.2181

## Protanomaly

20.1798, 16.3643, 7.2493

## Deuteranomaly

22.1192, 16.9017, 4.5792

## Tritanomaly

32.0632, 18.3421, 5.3405

# Monochromacy



## Original Color

32.0399, 18.3328, 5.2181

## Achromatopsia

13.1579, 13.8432, 15.0752

## Achromatomaly

16.9208, 13.3559, 10.2805

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 32.0399, 18.3328, 5.2181 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, 53, 53)` looks like.

```
.text, #text, p{  
    color:rgb(222, 53, 53)  
}
```

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, 53, 53) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 53, 53) }
```

## Border

The CSS property to change the border of an element to XYZ 32.0399, 18.3328, 5.2181 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, 53, 53) }
```



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

```
.border{ border-color:rgb(222, 53, 53) }
```

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

Here you see how a box with a 4 pixel `rgb(222, 53, 53)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 53, 53); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 53, 53);  
box-shadow:4px 4px 4px 4px rgb(222, 53,  
53) }
```

# Background

The CSS property to change the background color of an element to XYZ 32.0399, 18.3328, 5.2181 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 53, 53) }
```

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

```
.background{ background-color: rgb(222, 53,  
53) }
```

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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