

# Converting Colors

XYZ(28.8050, 17.2020, 6.1665)

Have a look what the booklet for  
XYZ(28.8050, 17.2020, 6.1665)  
contains.

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# Color

**XYZ(28.8055, 17.2297,  
6.2223)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D13D3D
RGB	209, 61, 61
RGB Percent	82%, 24%, 24%
CMY	0.1804, 0.7607, 0.7608
CMYK	0.00, 0.71, 0.71, 0.18
HSL	0°, 62%, 53%
HSV	0°, 71%, 82%
XYZ	28.8055, 17.2297, 6.2223
YIQ	105.2520, 88.2080, 31.3760

# Conversions

## Conversions Part 2

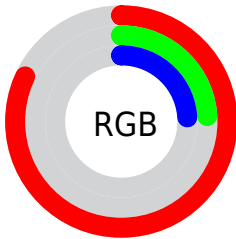
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">209, 61, 61</a>
Decimal	<a href="#">13712701</a>
CIELab	<a href="#">48.55, 57.63, 34.25</a>
CIElCh	<a href="#">49, 67.040, 30.727</a>
Yxy	<a href="#">17.2297, 0.5512, 0.3297</a>
Android (android.graphics.Color)	<a href="#">4291902781 (0xFFD13D3D)</a>
YUV	<a href="#">105.2520, -21.8162, 90.9870</a>
Hunter-Lab	<a href="#">41.5087, 51.2323, 20.1683</a>

# Details

The XYZ color **28.8055, 17.2297, 6.2223** 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 **36.2309, 51.1913, 68.2924**, and the grayscale version is **13.5372, 14.2422, 15.5098**.

A 20% lighter version of the original color is **50.4788, 35.3210, 18.6251**, and **12.1418, 6.2467, 1.1381** is the 20% darker color. If you saturate the color by 10%, you get **27.4416, 15.2342, 3.5106**, and if you desaturate by 10%, it is **30.8239, 20.1837, 10.2340**.

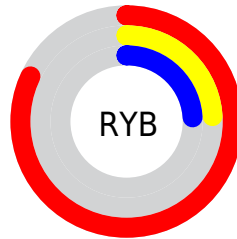
# Distribution



Red (82%)

Green (24%)

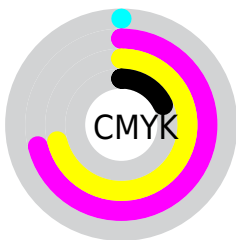
Blue (24%)



Red (82%)

Yellow (24%)

Blue (24%)

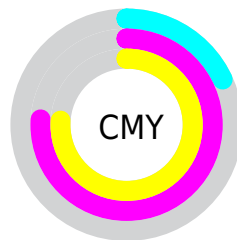


Cyan (0%)

Magenta (71%)

Yellow (71%)

Black (18%)



Cyan (18%)

Magenta (76%)


Yellow (76%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 28.8055, 17.2297, 6.2223 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 28.8055, 17.2297, 6.2223 by changing the saturation by 10% instead.




 28.8055, 17.2297,  
6.2223


 28.8055, 17.2297,  
6.2223


288.3069,  
236.4926, 170.4134


 19.0773, 10.3984,  
2.9098


 57.1676, 38.7203,  
18.8762


 11.8305, 5.6639,  
1.0487


 76.5322, 54.1484,  
29.0546

 6.6997, 2.6418,  
0.0000

 99.8397, 73.2108,  
42.3586

 3.3197, 0.9477,  
0.0000

 127.4553, 96.2920,  
59.2070

 1.3250, 0.0000,  
0.0000

 159.7445,  
123.7765, 80.0181

 0.2018, 0.0000,  
0.0000

 197.0726,

 0.0000, 0.0000,

156.0484, 105.2105

0.0000

239.8050,  
193.4923, 135.2028

■ 28.8055, 17.2297,  
6.2223

■ 28.8055, 17.2297,  
6.2223

■ 27.4416, 15.2342,  
3.5106

■ 30.8239, 20.1837,  
10.2340

■ 26.6500, 14.0759,  
1.9374

■ 33.5636, 24.1927,  
15.6801

■ 26.2944, 13.5555,  
1.2306

■ 37.0843, 29.3446,  
22.6791

■ 41.4394, 35.7173,  
31.3367

■ 46.6775, 43.3821,  
41.7498

■ 52.8434, 52.4046,  
54.0076

■ 59.9791, 62.8461,  
68.1932

■ 68.1237, 74.7639,  
84.3847

■ 77.3144, 88.2124,  
102.6560

# Harmonies

## Analogous

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



31.2942, 17.2297, 18.3332



28.8055, 17.2297, 6.2223



22.8734, 17.2297, 2.0047

# Triad

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



28.8055, 17.2297, 6.2223



8.0685, 17.2297, 6.5863



16.5270, 17.2297, 77.1793

# Complementary

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



28.8055, 17.2297, 6.2223



36.2309, 51.1913, 68.2924

# 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.



11.2432, 17.2297, 66.5952



28.8055, 17.2297, 6.2223



7.1623, 17.2297, 19.1938

# Square

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



28.8055, 17.2297, 6.2223



11.0419, 17.2297, 2.1031



8.1626, 17.2297, 41.9616



23.2001, 17.2297, 65.5990



# Rectangle

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



28.8055, 17.2297, 6.2223



18.3588, 17.2297, 1.2507



8.1626, 17.2297, 41.9616



14.5419, 17.2297, 76.0544

# Sweetspot

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



28.8059, 17.2307, 6.2226



72.8282, 67.4833, 64.7234



39.4716, 21.4961, 62.3899



15.0701, 13.6860, 12.8234



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.



28.8059, 17.2307, 6.2226



42.2955, 22.8048, 4.0275



35.8006, 31.2200, 8.5541



11.8088, 11.8084, 12.2689



16.2125, 8.3580, 0.7588



0.9065, 0.4674, 0.0424



# Inverse Universe

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



36.2309, 51.1913, 68.2924



54.6140, 79.1476, 107.0063



22.0970, 22.9234, 63.5811



12.1584, 13.4070, 15.1906



21.1519, 30.9504, 42.0517



1.1827, 1.7306, 2.3513



# Previews

## White Background



This preview shows how the XYZ color 28.8055, 17.2297, 6.2223 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 28.8055, 17.2297, 6.2223 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 28.8055, 17.2297, 6.2223**

## **Background**



This preview shows how black text looks on a background with the XYZ color 28.8055, 17.2297, 6.2223.



This preview shows how white text looks on a background with the XYZ color 28.8055, 17.2297,



# 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

28.8055, 17.2297, 6.2223

### Protanopia

16.1508, 17.4299, 10.1025

### Deuteranopia

17.6974, 17.3291, 5.6609



## Tritanopia

28.8604, 17.2517, 6.5114

# Trichromacy



## Original Color

28.8055, 17.2297, 6.2223

## Protanomaly

19.0958, 15.9147, 8.3687

## Deuteranomaly

20.6652, 16.2550, 5.6628

## Tritanomaly

28.8327, 17.2406, 6.3655

# Monochromacy



## Original Color

28.8055, 17.2297, 6.2223

## Achromatopsia

13.4271, 14.1263, 15.3836

## Achromatomaly

16.7032, 13.7057, 11.2163

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 28.8055, 17.2297, 6.2223 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(209, 61, 61)` looks like.

```
.text, #text, p{  
    color:rgb(209, 61, 61)  
}
```

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(209, 61, 61) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(209, 61, 61) }
```

## Border

The CSS property to change the border of an element to XYZ 28.8055, 17.2297, 6.2223 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(209, 61, 61) }
```



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

```
.border{ border-color:rgb(209, 61, 61) }
```

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

Here you see how a box with a 4 pixel rgb(209, 61, 61) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(209, 61, 61); -webkit-box-  
shadow:4px 4px 4px 4px rgb(209, 61, 61);  
box-shadow:4px 4px 4px 4px rgb(209, 61,  
61) }
```

# Background

The CSS property to change the background color of an element to XYZ 28.8055, 17.2297, 6.2223 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(209, 61, 61) }
```

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

```
.background{ background-color: rgb(209, 61,  
61) }
```

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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