

# Converting Colors

XYZ(27.8256, 15.5280, 3.7212)

Have a look what the booklet for  
XYZ(27.8256, 15.5280, 3.7212)  
contains.

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# Color

**XYZ(27.8242, 15.5247,  
3.7206)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D22A2A
RGB	210, 42, 42
RGB Percent	82%, 16%, 16%
CMY	0.1765, 0.8352, 0.8353
CMYK	0.00, 0.80, 0.80, 0.18
HSL	0°, 67%, 49%
HSV	0°, 80%, 82%
XYZ	27.8242, 15.5247, 3.7206
YIQ	92.2320, 100.1280, 35.6160

# Conversions

## Conversions Part 2

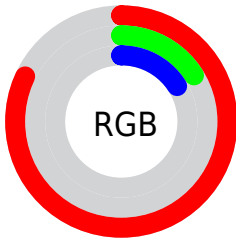
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	210, 42, 42
Decimal	13773354
CIE <sub>Lab</sub>	46.34, 63.27, 42.59
CIE <sub>LCh</sub>	46, 76.268, 33.947
Yxy	15.5247, 0.5911, 0.3298
Android (android.graphics.Color)	4291963434 (0xFFD22A2A)
YUV	92.2320, -24.7644, 103.2825
Hunter-Lab	39.4014, 57.0994, 21.9823

# Details

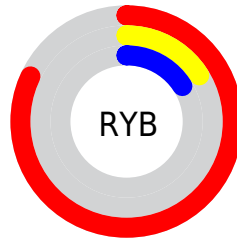
The XYZ color **27.8242, 15.5247, 3.7206** is a dark color, and the websafe version is hex **CC3333**. The color can be described as dark washed red. A complement of this color would be **35.6308, 51.2316, 68.9830**, and the grayscale version is **10.2668, 10.8015, 11.7629**.

A 20% lighter version of the original color is **47.9935, 31.8819, 13.0755**, and **12.0326, 6.2030, 0.5631** is the 20% darker color. If you saturate the color by 10%, you get **26.9820, 14.2926, 2.0462**, and if you desaturate by 10%, it is **29.2536, 17.6168, 6.5613**.

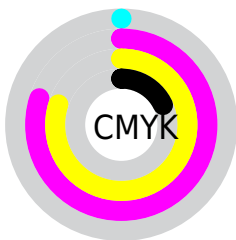
# Distribution



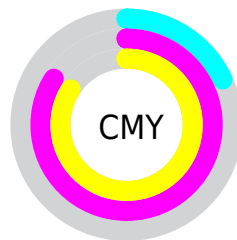
- Red (82%)
- Green (16%)
- Blue (16%)



- Red (82%)
- Yellow (16%)
- Blue (16%)



- Cyan (0%)
- Magenta (80%)
- Yellow (80%)
- Black (18%)




- Cyan (18%)
- Magenta (84%)
- Yellow (84%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 27.8242, 15.5247, 3.7206 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 27.8242, 15.5247, 3.7206 by changing the saturation by 10% instead.




 27.8242, 15.5247,  
3.7206


 27.8242, 15.5247,  
3.7206


283.7213,  
226.5205, 145.0673


 18.3330, 9.1885,  
1.4734


 55.6143, 35.7711,  
13.3601


 11.2904, 4.8643,  
0.1980


 74.6438, 50.4500,  
21.5894

 6.3313, 2.1679,  
0.0000


 97.5834, 68.6786,  
32.6498

 3.0901, 0.7024,  
0.0000

 124.7986, 90.8412,  
46.9599

 1.2016, 0.0000,  
0.0000

 156.6546,  
117.3224, 64.9381

 0.1076, 0.0000,  
0.0000

 193.5168,

 0.0000, 0.0000,

148.5063, 87.0030

0.0000

235.7506,  
184.7776, 113.5733

■ 27.8242, 15.5247,  
3.7206

■ 27.8242, 15.5247,  
3.7206

■ 26.9820, 14.2926,  
2.0462

■ 29.2536, 17.6168,  
6.5613

■ 26.5783, 13.7019,  
1.2439

■ 31.3496, 20.6840,  
10.7278

■ 26.5783, 13.7019,  
1.2439

■ 34.1805, 24.8265,  
16.3553

■ 37.8059, 30.1315,  
23.5623

■ 42.2792, 36.6773,  
32.4551

■ 47.6494, 44.5354,  
43.1309

■ 53.9616, 53.7718,  
55.6793

■ 61.2578, 64.4481,  
70.1842

■ 69.5775, 76.6222,  
86.7240

# Harmonies

## Analogous

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



31.1733, 15.5247, 14.5458



27.8242, 15.5247, 3.7206



20.9900, 15.5247, 0.7960

# Triad

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



27.8242, 15.5247, 3.7206



6.1021, 15.5247, 5.5139



15.6376, 15.5247, 84.2034

# Complementary

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



27.8242, 15.5247, 3.7206



35.6308, 51.2316, 68.9830

# 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.



9.8971, 15.5247, 74.2122



27.8242, 15.5247, 3.7206



5.4359, 15.5247, 19.5036

# Square

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



27.8242, 15.5247, 3.7206



8.7931, 15.5247, 1.1771



6.5948, 15.5247, 46.0095



22.9423, 15.5247, 67.7672



# Rectangle

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



27.8242, 15.5247, 3.7206



16.1205, 15.5247, 0.2840



6.5948, 15.5247, 46.0095



13.4703, 15.5247, 83.8677

# Sweetspot

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



27.8245, 15.5257, 3.7208



70.2035, 63.6428, 59.5054



39.0389, 20.0106, 62.7771



14.3958, 12.6994, 11.4829



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.



27.8245, 15.5257, 3.7208



41.4068, 21.5042, 2.2612



34.4569, 28.7905, 5.9316



11.8089, 11.8084, 12.2689



16.2125, 8.3581, 0.7588



0.9065, 0.4674, 0.0424



# Inverse Universe

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



35.6308, 51.2316, 68.9830



53.9315, 78.7934, 106.9739



20.0485, 20.0671, 63.7889



12.1583, 13.4070, 15.1906



21.1515, 30.9496, 42.0516



1.1827, 1.7306, 2.3513



# Previews

## White Background



This preview shows how the XYZ color 27.8242, 15.5247, 3.7206 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 27.8242, 15.5247, 3.7206 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 27.8242, 15.5247, 3.7206**

## **Background**



This preview shows how black text looks on a background with the XYZ color 27.8242, 15.5247, 3.7206.



This preview shows how white text looks on a background with the XYZ color 27.8242, 15.5247,



# 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

27.8242, 15.5247, 3.7206

### Protanopia

14.5528, 15.8434, 6.7059

### Deuteranopia

15.8969, 15.6712, 3.2239



## Tritanopia

27.8242, 15.5247, 3.7206

# Trichromacy



## Original Color

27.8242, 15.5247, 3.7206

## Protanomaly

17.3201, 13.7919, 5.2393

## Deuteranomaly

18.7951, 14.1382, 3.1048

## Tritanomaly

27.8242, 15.5247, 3.7206

# Monochromacy



## Original Color

27.8242, 15.5247, 3.7206

## Achromatopsia

10.1725, 10.7023, 11.6548

## Achromatomaly

13.6765, 10.5429, 7.7927

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 27.8242, 15.5247, 3.7206 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(210, 42, 42)` looks like.

```
.text, #text, p{  
    color:rgb(210, 42, 42)  
}
```

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(210, 42, 42) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(210, 42, 42) }
```

## Border

The CSS property to change the border of an element to XYZ 27.8242, 15.5247, 3.7206 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(210, 42, 42) }
```



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

```
.border{ border-color:rgb(210, 42, 42) }
```

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

Here you see how a box with a 4 pixel `rgb(210, 42, 42)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(210, 42, 42); -webkit-box-  
shadow:4px 4px 4px 4px rgb(210, 42, 42);  
box-shadow:4px 4px 4px 4px rgb(210, 42,  
42) }
```

# Background

The CSS property to change the background color of an element to XYZ 27.8242, 15.5247, 3.7206 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(210, 42, 42) }
```

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

```
.background{ background-color: rgb(210, 42,  
42) }
```

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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