

# Converting Colors

XYZ(28.2425, 15.5716, 3.5766)

Have a look what the booklet for  
XYZ(28.2425, 15.5716, 3.5766)  
contains.

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# Color

**XYZ(28.2771, 15.6082,  
3.6201)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D42729
RGB	212, 39, 41
RGB Percent	83%, 15%, 16%
CMY	0.1686, 0.8470, 0.8392
CMYK	0.00, 0.82, 0.81, 0.17
HSL	359°, 69%, 49%
HSV	359°, 82%, 83%
XYZ	28.2771, 15.6082, 3.6201
YIQ	90.9550, 102.4660, 37.2980

# Conversions

## Conversions Part 2

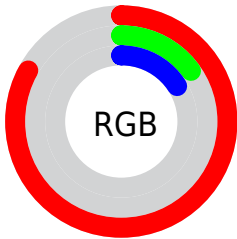
Format	Color
<a href="#">RYB</a>	<a href="#">212, 39, 41</a>
Decimal	<a href="#">13903657</a>
CIELab	<a href="#">46.46, 64.58, 43.37</a>
CIElCh	<a href="#">46, 77.792, 33.886</a>
Yxy	<a href="#">15.6082, 0.5952, 0.3286</a>
Android (android.graphics.Color)	<a href="#">4292093737</a> ( <a href="#">0xFFD42729</a> )
YUV	<a href="#">90.9550, -24.6278, 106.1565</a>
Hunter-Lab	<a href="#">39.5072, 58.6229, 22.2222</a>

# Details

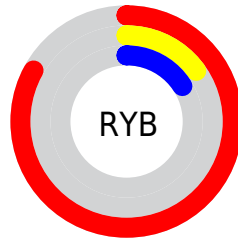
The XYZ color **28.2771, 15.6082, 3.6201** is a dark color, and the websafe version is hex **CC3333**. The color can be described as dark washed red. A complement of this color would be **36.0154, 52.1721, 69.1552**, and the grayscale version is **9.9733, 10.4927, 11.4265**.

A 20% lighter version of the original color is **47.7528, 31.4673, 12.7895**, and **12.2127, 6.2959, 0.5715** is the 20% darker color. If you saturate the color by 10%, you get **27.4911, 14.4743, 2.0087**, and if you desaturate by 10%, it is **29.6467, 17.5987, 6.3856**.

# Distribution



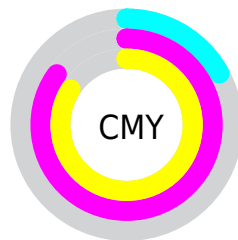
- Red (83%)
- Green (15%)
- Blue (16%)



- Red (83%)
- Yellow (15%)
- Blue (16%)



- Cyan (0%)
- Magenta (82%)
- Yellow (81%)
- Black (17%)




- Cyan (17%)
- Magenta (85%)
- Yellow (84%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 28.2771, 15.6082, 3.6201 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 28.2771, 15.6082, 3.6201 by changing the saturation by 10% instead.





 28.2771, 15.6082,  
3.6201


 28.2771, 15.6082,  
3.6201

285.8448,  
227.0186, 143.9043


 18.6762, 9.2473,  
1.4193


 56.3321, 35.9167,  
13.1237

 11.5391, 4.9029,  
0.1567


 75.5169, 50.6331,  
21.2635

 6.5006, 2.1904,  
0.0000


 98.6270, 68.9034,  
32.2202

 3.1954, 0.7147,  
0.0000

 126.0277, 91.1122,  
46.4122

 1.2579, 0.0000,  
0.0000

 158.0846,  
117.6436, 64.2581

 0.1514, 0.0000,  
0.0000

 195.1628,

 0.0000, 0.0000,

148.8823, 86.1763

0.0000

237.6277,  
185.2124, 112.5856

■ 28.2771, 15.6082,  
3.6201

■ 28.2771, 15.6082,  
3.6201

■ 27.4911, 14.4743,  
2.0087

■ 29.6467, 17.5987,  
6.3856


■ 27.1644, 14.0022,  
1.3408


■ 31.6826, 20.5671,  
10.4662


■ 34.4555, 24.6182,  
15.9981


■ 38.0265, 29.8426,  
23.1003

■ 42.4506, 36.3214,  
31.8796

 47.7779, 44.1286,  
42.4335

 54.0545, 53.3323,  
54.8517

 61.3235, 63.9961,  
69.2183

 69.6253, 76.1797,  
85.6120

# Harmonies

## Analogous

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



31.7208, 15.6082, 14.6187



28.2771, 15.6082, 3.6201



21.2463, 15.6082, 0.7163

# Triad

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



28.2771, 15.6082, 3.6201



6.0245, 15.6082, 5.3915



15.7239, 15.6082, 86.5903

# Complementary

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



28.2771, 15.6082, 3.6201



36.0154, 52.1721, 69.1552

# 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.



9.8639, 15.6082, 76.1579



28.2771, 15.6082, 3.6201



5.3478, 15.6082, 19.6151

# Square

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



28.2771, 15.6082, 3.6201



8.7580, 15.6082, 1.0900



6.5152, 15.6082, 46.9115



23.2227, 15.6082, 69.5725



# Rectangle

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



28.2771, 15.6082, 3.6201



16.2474, 15.6082, 0.1921



6.5152, 15.6082, 46.9115



13.5071, 15.6082, 86.2213

# Sweetspot

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



28.2774, 15.6092, 3.6203



70.2814, 63.6722, 59.9206



38.9370, 19.7778, 64.0521



14.4138, 12.7062, 11.5788



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.



28.2774, 15.6092, 3.6203



41.3390, 21.3882, 2.1782



34.5541, 28.2166, 5.5461



12.4290, 12.4231, 12.9333



16.7727, 8.6454, 0.8410



1.0137, 0.5223, 0.0617



# Inverse Universe

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



28.2774, 15.6092, 3.6203



41.3390, 21.3882, 2.1782



20.4912, 20.7257, 65.2072



12.4290, 12.4231, 12.9333



16.7727, 8.6454, 0.8410



1.0137, 0.5223, 0.0617



# Previews

## White Background



This preview shows how the XYZ color 28.2771, 15.6082, 3.6201 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



## 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 28.2771, 15.6082, 3.6201**

## **Background**



This preview shows how black text looks on a background with the XYZ color 28.2771, 15.6082, 3.6201.



This preview shows how white text looks on a background with the XYZ color 28.2771, 15.6082,



# 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

28.2771, 15.6082, 3.6201

### Protanopia

14.5261, 15.8327, 6.5654

### Deuteranopia

16.0423, 15.7488, 3.1140



## Tritanopia

28.2431, 15.5946, 3.4409

# Trichromacy



## Original Color

28.2771, 15.6082, 3.6201

## Protanomaly

17.4087, 13.7226, 5.0993

## Deuteranomaly

18.9156, 14.0908, 3.0192

## Tritanomaly

28.2599, 15.6013, 3.5294

# Monochromacy



## Original Color

28.2771, 15.6082, 3.6201

## Achromatopsia

9.9438, 10.4616, 11.3927

## Achromatomaly

13.5116, 10.2667, 7.5729

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 28.2771, 15.6082, 3.6201 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(212, 39, 41)` looks like.

```
.text, #text, p{  
    color:rgb(212, 39, 41)  
}
```

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(212, 39, 41) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(212, 39, 41) }
```

## Border

The CSS property to change the border of an element to XYZ 28.2771, 15.6082, 3.6201 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(212, 39, 41) }
```



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

```
.border{ border-color:rgb(212, 39, 41) }
```

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

Here you see how a box with a 4 pixel `rgb(212, 39, 41)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(212, 39, 41); -webkit-box-  
shadow:4px 4px 4px 4px rgb(212, 39, 41);  
box-shadow:4px 4px 4px 4px rgb(212, 39,  
41) }
```

# Background

The CSS property to change the background color of an element to XYZ 28.2771, 15.6082, 3.6201 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(212, 39, 41) }
```

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

```
.background{ background-color: rgb(212, 39,  
41) }
```

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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