

# Converting Colors

XYZ(32.8684, 20.6177, 5.0436)

Have a look what the booklet for  
XYZ(32.8684, 20.6177, 5.0436)  
contains.

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# Color

**XYZ(32.8684, 20.6177,  
5.0436)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	DD4B30
RGB	221, 75, 48
RGB Percent	87%, 29%, 19%
CMY	0.1333, 0.7058, 0.8118
CMYK	0.00, 0.66, 0.78, 0.13
HSL	9°, 72%, 53%
HSV	9°, 78%, 87%
XYZ	32.8684, 20.6177, 5.0436
YIQ	115.5760, 95.6830, 22.5550

# Conversions

## Conversions Part 2

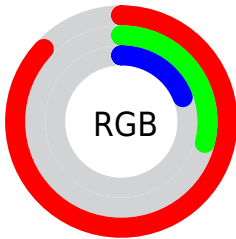
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	221, 80, 48
Decimal	14502704
CIE Lab	52.53, 55.57, 46.33
CIE LCh	53, 72.349, 39.815
Yxy	20.6177, 0.5616, 0.3523
Android (android.graphics.Color)	4292692784 (0xFFDD4B30)
YUV	115.5760, -33.3150, 92.4568
Hunter-Lab	45.4067, 49.7484, 25.1990

# Details

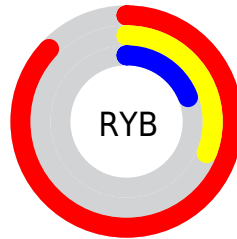
The XYZ color **32.8684, 20.6177, 5.0436** is a dark color, and the websafe version is hex **CC3333**. The color can be described as dark muted red. A complement of this color would be **33.5599, 44.4286, 75.2130**, and the grayscale version is **16.5499, 17.4118, 18.9614**.

A 20% lighter version of the original color is **51.3340, 38.0698, 15.7089**, and **14.1331, 7.3342, 0.6707** is the 20% darker color. If you saturate the color by 10%, you get **31.4356, 18.3095, 2.8488**, and if you desaturate by 10%, it is **34.8998, 23.7605, 8.5579**.

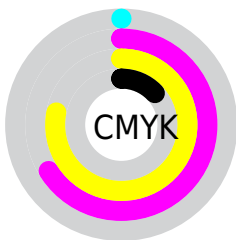
# Distribution



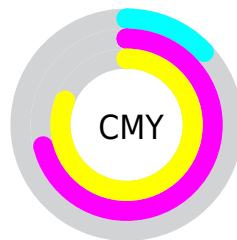
- Red (87%)
- Green (29%)
- Blue (19%)



- Red (87%)
- Yellow (31%)
- Blue (19%)



- Cyan (0%)
- Magenta (66%)
- Yellow (78%)
- Black (13%)




- Cyan (13%)
- Magenta (71%)
- Yellow (81%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 32.8684, 20.6177, 5.0436 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 32.8684, 20.6177, 5.0436 by changing the saturation by 10% instead.





 32.8684, 20.6177,  
5.0436


 32.8684, 20.6177,  
5.0436


306.7318,  
255.2397, 159.2013

 22.1844, 12.8448,  
2.2137


 63.5261, 44.4504,  
16.3529


 14.1098, 7.3218,  
0.6822


 84.2305, 61.2790,  
25.6693


 8.2793, 3.6641,  
0.0000


 109.0057, 81.8951,  
37.9850

 4.3275, 1.4875,  
0.0000

 138.2171,  
106.6829, 53.7185

 1.8890, 0.2799,  
0.0000

 172.2301,  
136.0268, 73.2884

 0.5704, 0.0000,  
0.0000

 211.4099,

 0.0000, 0.0000,

170.3114, 97.1131

0.0000

256.1221,  
209.9209, 125.6112

■ 32.8684, 20.6177,  
5.0436

■ 32.8684, 20.6177,  
5.0436

■ 31.4356, 18.3095,  
2.8488

■ 34.8998, 23.7605,  
8.5579

■ 30.5233, 16.7481,  
1.7331

■ 37.5875, 27.8049,  
13.5572

■ 30.4051, 16.5450,  
1.5910

■ 40.9838, 32.8153,  
20.1835

■ 45.1351, 38.8490,  
28.5620

■ 50.0837, 45.9587,  
38.8056

■ 55.8690, 54.1935,  
51.0175

■ 62.5275, 63.5996,  
65.2937

■ 70.0935, 74.2203,  
81.7235

■ 78.5997, 86.0971,  
100.3913

# Harmonies

## Analogous

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



37.4851, 20.6177, 16.1277



32.8684, 20.6177, 5.0436



24.9969, 20.6177, 1.7267

# Triad

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



32.8684, 20.6177, 5.0436



8.9503, 20.6177, 11.0142



22.1550, 20.6177, 92.5339

# Complementary

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



32.8684, 20.6177, 5.0436



33.5599, 44.4286, 75.2130

# 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.



15.0360, 20.6177, 87.6622



32.8684, 20.6177, 5.0436



8.5567, 20.6177, 30.2381

# Square

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



32.8684, 20.6177, 5.0436



11.7468, 20.6177, 3.3357



10.4864, 20.6177, 60.5609



30.3382, 20.6177, 71.3603



# Rectangle

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



32.8684, 20.6177, 5.0436



19.6431, 20.6177, 1.3080



10.4864, 20.6177, 60.5609



19.5500, 20.6177, 94.0936

# Sweetspot

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



32.8689, 20.6189, 5.0439



73.1963, 69.1667, 61.9263



40.7316, 21.4285, 53.6485



15.0594, 13.9383, 11.9761



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.



32.8689, 20.6189, 5.0439



42.5888, 23.8162, 2.8155



43.0011, 40.8834, 8.4213



13.2194, 13.3781, 13.6111



17.7157, 9.7170, 0.9419



1.2000, 0.7341, 0.0784

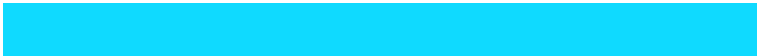


# Inverse Universe

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



33.5599, 44.4286, 75.2130



43.2142, 57.2486, 103.3802



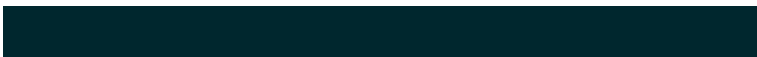
19.6909, 16.6905, 70.5900



13.2627, 14.4652, 16.7452



17.9113, 23.6921, 43.3674



1.2080, 1.6301, 2.8254



# Previews

## White Background



This preview shows how the XYZ color 32.8684, 20.6177, 5.0436 looks on a white 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



# Black Background



This preview shows how the XYZ color 32.8684, 20.6177, 5.0436 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 32.8684, 20.6177, 5.0436**

## **Background**



This preview shows how black text looks on a background with the XYZ color 32.8684, 20.6177, 5.0436.



This preview shows how white text looks on a background with the XYZ color 32.8684, 20.6177,



# 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

32.8684, 20.6177, 5.0436

### Protanopia

19.0055, 20.7696, 7.7099

### Deuteranopia

21.0158, 20.5901, 4.5357



## Tritanopia

33.7116, 20.6723, 8.8700

# Trichromacy



## Original Color

32.8684, 20.6177, 5.0436

## Protanomaly

22.3836, 19.2559, 6.5400

## Deuteranomaly

24.2893, 19.6775, 4.5254

## Tritanomaly

33.4609, 20.6763, 7.2284

# Monochromacy



## Original Color

32.8684, 20.6177, 5.0436

## Achromatopsia

16.6002, 17.4647, 19.0191

## Achromatomaly

19.8684, 16.9327, 12.1187

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 32.8684, 20.6177, 5.0436 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(221, 75, 48)` looks like.

```
.text, #text, p{  
    color:rgb(221, 75, 48)  
}
```

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(221, 75, 48) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(221, 75, 48) }
```

## Border

The CSS property to change the border of an element to XYZ 32.8684, 20.6177, 5.0436 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(221, 75, 48) }
```



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

```
.border{ border-color:rgb(221, 75, 48) }
```

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

Here you see how a box with a 4 pixel rgb(221, 75, 48) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(221, 75, 48); -webkit-box-  
shadow:4px 4px 4px 4px rgb(221, 75, 48);  
box-shadow:4px 4px 4px 4px rgb(221, 75,  
48) }
```

# Background

The CSS property to change the background color of an element to XYZ 32.8684, 20.6177, 5.0436 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(221, 75, 48) }
```

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

```
.background{ background-color: rgb(221, 75,  
48) }
```

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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