

# Converting Colors

XYZ(36.8920, 20.2489, 4.2304)

Have a look what the booklet for  
XYZ(36.8920, 20.2489, 4.2304)  
contains.

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# Color

**XYZ(36.8965, 20.2529,  
4.2500)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EF2B2B
RGB	239, 43, 43
RGB Percent	94%, 17%, 17%
CMY	0.0627, 0.8313, 0.8314
CMYK	0.00, 0.82, 0.82, 0.06
HSL	0°, 86%, 55%
HSV	0°, 82%, 94%
XYZ	36.8965, 20.2529, 4.2500
YIQ	101.6040, 116.8160, 41.5520

# Conversions

## Conversions Part 2

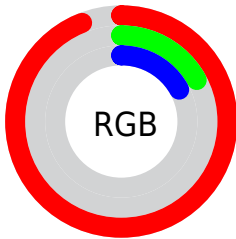
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	239, 43, 43
Decimal	15674155
CIE Lab	52.12, 71.11, 49.61
CIE LCh	52, 86.707, 34.900
Yxy	20.2529, 0.6009, 0.3299
Android (android.graphics.Color)	4293864235 (0xFFEF2B2B)
YUV	101.6040, -28.8918, 120.4963
Hunter-Lab	45.0032, 67.5900, 25.9030

# Details

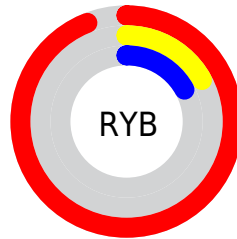
The XYZ color **36.8965, 20.2529, 4.2500** is a dark color, and the websafe version is hex **FF3333**. The color can be described as dark washed red. A complement of this color would be **47.4367, 68.4668, 92.3759**, and the grayscale version is **12.5799, 13.2350, 14.4129**.

A 20% lighter version of the original color is **48.5970, 32.9526, 13.6967**, and **17.4556, 8.9987, 0.8169** is the 20% darker color. If you saturate the color by 10%, you get **35.9496, 18.8678, 2.3677**, and if you desaturate by 10%, it is **38.6087, 22.7591, 7.6525**.

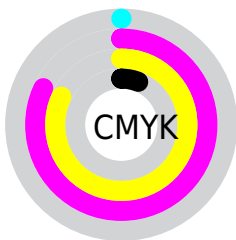
# Distribution



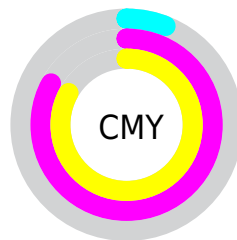
- Red (94%)
- Green (17%)
- Blue (17%)



- Red (94%)
- Yellow (17%)
- Blue (17%)



- Cyan (0%)
- Magenta (82%)
- Yellow (82%)
- Black (6%)




- Cyan (6%)
- Magenta (83%)
- Yellow (83%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.8965, 20.2529, 4.2500 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 36.8965, 20.2529, 4.2500 by changing the saturation by 10% instead.





 36.8965, 20.2529,  
4.2500


 36.8965, 20.2529,  
4.2500


324.2255,  
253.2809, 150.9649


 25.3007, 12.5790,  
1.7635


 69.7284, 43.8408,  
14.5823

 16.4311, 7.1393,  
0.4037


 91.6953, 60.5236,  
23.2652

 9.9225, 3.5494,  
0.0000


 117.8498, 80.9781,  
34.8507

 5.4095, 1.4248,  
0.0000

 148.5574,  
105.5888, 49.7572

 2.5267, 0.2349,  
0.0000

 184.1834,  
134.7400, 68.4033

 0.9087, 0.0000,  
0.0000

 225.0932,

 0.0000, 0.0000,

168.8162, 91.2076

0.0000

271.6521,  
208.2017, 118.5886

■ 36.8965, 20.2529,  
4.2500

■ 36.8965, 20.2529,  
4.2500

■ 35.9496, 18.8678,  
2.3677

■ 38.6087, 22.7591,  
7.6525


■ 35.5966, 18.3511,  
1.6660


■ 41.2013, 26.5530,  
12.8061


■ 44.7715, 31.7774,  
19.9032


■ 49.4035, 38.5554,  
29.1112

■ 55.1723, 46.9968,  
40.5792

 62.1461, 57.2014,  
54.4430

 70.3879, 69.2614,  
70.8276

 79.9561, 83.2622,  
89.8494

 89.4063, 97.0906,  
108.6359

# Harmonies

## Analogous

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



41.7295, 20.2529, 18.1381



36.8965, 20.2529, 4.2500



27.4277, 20.2529, 0.7933

# Triad

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



36.8965, 20.2529, 4.2500



7.5686, 20.2529, 7.1452



20.7433, 20.2529, 115.2781

# Complementary

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



36.8965, 20.2529, 4.2500



47.4367, 68.4668, 92.3759

# 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.



12.8842, 20.2529, 102.4330



36.8965, 20.2529, 4.2500



6.7678, 20.2529, 26.4919

# Square

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



36.8965, 20.2529, 4.2500



11.0486, 20.2529, 1.3543



8.3775, 20.2529, 63.4583



30.7477, 20.2529, 91.2534



# Rectangle

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



36.8965, 20.2529, 4.2500



20.8059, 20.2529, 0.2449



8.3775, 20.2529, 63.4583



17.7732, 20.2529, 115.2332

# Sweetspot

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



36.8969, 20.2542, 4.2503



69.3582, 62.4061, 57.8246



52.0400, 26.3103, 83.9962



14.2343, 12.4631, 11.1617



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.



36.8969, 20.2542, 4.2503



41.3236, 21.3824, 2.0957



45.5572, 37.5747, 7.1370



15.7730, 15.7591, 16.3602



19.6717, 10.1414, 0.9207



1.6365, 0.8438, 0.0766



# Inverse Universe

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



47.4367, 68.4668, 92.3759



53.8660, 78.7573, 106.9704



26.1010, 25.7952, 85.2640



16.2473, 17.9287, 20.3259



25.6636, 37.5515, 51.0234



2.1350, 3.1240, 4.2447



# Previews

## White Background



This preview shows how the XYZ color 36.8965, 20.2529, 4.2500 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 36.8965, 20.2529, 4.2500 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 36.8965, 20.2529, 4.2500**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.8965, 20.2529, 4.2500.



This preview shows how white text looks on a background with the XYZ color 36.8965, 20.2529,



# 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

36.8965, 20.2529, 4.2500

### Protanopia

18.7403, 20.4407, 7.8082

### Deuteranopia

20.5377, 20.1868, 3.6246



## Tritanopia

36.8784, 20.2456, 4.1546

# Trichromacy



## Original Color

36.8965, 20.2529, 4.2500

## Protanomaly

22.4852, 17.5839, 5.9503

## Deuteranomaly

24.4689, 18.1407, 3.4401

## Tritanomaly

36.8784, 20.2456, 4.1546

# Monochromacy



## Original Color

36.8965, 20.2529, 4.2500

## Achromatopsia

12.6291, 13.2868, 14.4694

## Achromatomaly

17.3765, 13.1543, 9.4078

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.8965, 20.2529, 4.2500 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(239, 43, 43)` looks like.

```
.text, #text, p{  
    color:rgb(239, 43, 43)  
}
```

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(239, 43, 43) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(239, 43, 43) }
```

## Border

The CSS property to change the border of an element to XYZ 36.8965, 20.2529, 4.2500 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(239, 43, 43) }
```



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

```
.border{ border-color:rgb(239, 43, 43) }
```

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

Here you see how a box with a 4 pixel `rgb(239, 43, 43)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(239, 43, 43); -webkit-box-  
shadow:4px 4px 4px 4px rgb(239, 43, 43);  
box-shadow:4px 4px 4px 4px rgb(239, 43,  
43) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.8965, 20.2529, 4.2500 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(239, 43, 43) }
```

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

```
.background{ background-color: rgb(239, 43,  
43) }
```

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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