

# Converting Colors

XYZ(41.5042, 21.3657, 3.3215)

Have a look what the booklet for  
XYZ(41.5042, 21.3657, 3.3215)  
contains.

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# Color

**XYZ(41.5007, 21.3643,  
3.3029)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF0020
RGB	255, 0, 32
RGB Percent	100%, 0%, 13%
CMY	0.0000, 0.9997, 0.8745
CMYK	0.00, 1.00, 0.87, 0.00
HSL	352°, 100%, 50%
HSV	352°, 100%, 100%
XYZ	41.5007, 21.3643, 3.3029
YIQ	79.8930, 141.7080, 64.0120

# Conversions

## Conversions Part 2

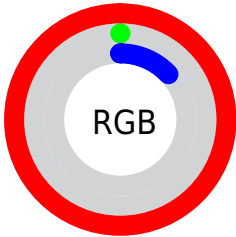
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 0, 32
Decimal	16711712
CIE <sub>Lab</sub>	53.35, 80.42, 57.19
CIE <sub>LCh</sub>	53, 98.678, 35.418
Yxy	21.3643, 0.6272, 0.3229
Android (android.graphics.Color)	4294901792 (0xFFFF0020)
YUV	79.8930, -23.6112, 153.5688
Hunter-Lab	46.2215, 79.3812, 28.1183

# Details

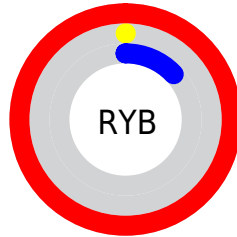
The XYZ color **41.5007, 21.3643, 3.3029** is a dark color, and the websafe version is hex **FF0033**. The color can be described as dark saturated red. A complement of this color would be **49.0894, 76.8514, 82.1085**, and the grayscale version is **7.6371, 8.0348, 8.7499**.

A 20% lighter version of the original color is **46.9627, 30.3886, 10.9798**, and **20.7390, 10.6914, 0.9706** is the 20% darker color. If you saturate the color by 10%, you get **41.4995, 21.3638, 3.2984**, and if you desaturate by 10%, it is **42.2727, 22.2490, 5.5944**.

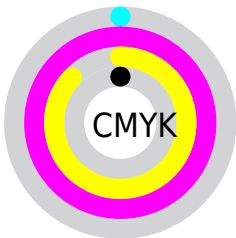
# Distribution



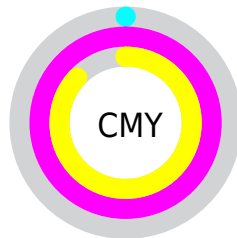
- Red (100%)
- Green (0%)
- Blue (13%)



- Red (100%)
- Yellow (0%)
- Blue (13%)



- Cyan (0%)
- Magenta (100%)
- Yellow (87%)
- Black (0%)



- Cyan (0%)
- Magenta (100%)
- Yellow (87%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 41.5007, 21.3643, 3.3029 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 41.5007, 21.3643, 3.3029 by changing the saturation by 10% instead.





 41.5007, 21.3643,  
3.3029


 41.5007, 21.3643,  
3.3029


343.4359,  
259.2083, 140.1297


 28.8999, 13.3906,  
1.2513

 76.7133, 45.6930,  
12.3671

 19.1490, 7.6980,  
0.0214


 100.0559, 62.8168,  
20.2169

 11.8827, 3.9023,  
0.0000


 127.7097, 83.7594,  
30.8364

 6.7355, 1.6191,  
0.0000

 160.0402,  
108.9052, 44.6442

 3.3421, 0.3704,  
0.0000

 197.4127,  
138.6386, 62.0589


 1.3371, 0.0000,  
0.0000

 240.1926,

 0.2108, 0.0000,

173.3440, 83.4990


0.0000


 288.7452,  
213.4057, 109.3831


 0.0000, 0.0000,  
0.0000


 41.5007, 21.3643,  
3.3029


 41.5007, 21.3643,  
3.3029


 41.4995, 21.3638,  
3.2984

 42.2727, 22.2490,  
5.5944

 43.7526, 24.1642,  
9.3079

 46.1119, 27.4072,  
14.6439

 49.4631, 32.1627,  
21.7627

 53.9014, 38.5860,  
30.8051

■ 59.5107, 46.8130,  
41.8976

■ 66.3666, 56.9656,  
55.1559

■ 74.5385, 69.1552,  
70.6868

■ 84.0905, 83.4845,  
88.5904

# Harmonies

## Analogous

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



47.6286, 21.3643, 18.2369



41.5007, 21.3643, 3.3029



29.8740, 21.3643, 0.1567

# Triad

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



41.5007, 21.3643, 3.3029



6.9587, 21.3643, 6.5867



22.2647, 21.3643, 140.6181

# Complementary

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



41.5007, 21.3643, 3.3029



49.0894, 76.8514, 82.1085

# 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.



13.0362, 21.3643, 124.7832



41.5007, 21.3643, 3.3029



6.1441, 21.3643, 29.1348

# Square

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



41.5007, 21.3643, 3.3029



10.7387, 21.3643, 0.8080



7.9306, 21.3643, 75.1523



34.3333, 21.3643, 108.8503



# Rectangle

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



41.5007, 21.3643, 3.3029



21.9556, 21.3643, 0.0000



7.9306, 21.3643, 75.1523



18.7414, 21.3643, 140.8611

# Sweetspot

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



41.5012, 21.3657, 3.3032



66.3459, 56.9345, 55.1155



47.8721, 22.5950, 96.4451



13.5489, 11.2188, 10.5430



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.



41.5012, 21.3657, 3.3032



41.4999, 21.3639, 3.2984



45.2024, 29.1848, 3.2529



18.1019, 18.0241, 19.1539



21.7132, 11.1746, 1.8741



2.1419, 1.0991, 0.3285



# Inverse Universe

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



41.5012, 21.3657, 3.3032



41.4999, 21.3639, 3.2984



30.8877, 32.8944, 99.3282



18.1019, 18.0241, 19.1539



21.7132, 11.1746, 1.8741



2.1419, 1.0991, 0.3285



# Previews

## White Background



This preview shows how the XYZ color 41.5007, 21.3643, 3.3029 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

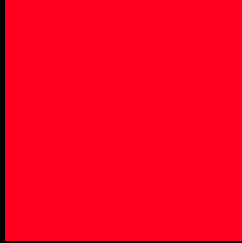
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 41.5007, 21.3643, 3.3029 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 41.5007, 21.3643, 3.3029**

## **Background**



This preview shows how black text looks on a background with the XYZ color 41.5007, 21.3643, 3.3029.



This preview shows how white text looks on a background with the XYZ color 41.5007, 21.3643,



# 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

41.5007, 21.3643, 3.3029

### Protanopia

19.8675, 21.8160, 6.7782

### Deuteranopia

22.0638, 21.7056, 3.0267



## Tritanopia

40.8144, 21.4954, 1.9979

# Trichromacy



## Original Color

41.5007, 21.3643, 3.3029

## Protanomaly

23.2975, 16.4302, 4.6327

## Deuteranomaly

25.5557, 17.2111, 2.3230

## Tritanomaly

41.1102, 21.4390, 2.3192

# Monochromacy



## Original Color

41.5007, 21.3643, 3.3029

## Achromatopsia

7.6249, 8.0220, 8.7359

## Achromatomaly

13.5826, 8.6558, 5.6575

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.5007, 21.3643, 3.3029 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(255, 0, 32)` looks like.

```
.text, #text, p{  
  color:rgb(255, 0, 32)  
}
```

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(255, 0, 32) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 0, 32) }
```

## Border

The CSS property to change the border of an element to XYZ 41.5007, 21.3643, 3.3029 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(255, 0, 32) }
```



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

```
.border{ border-color:rgb(255, 0, 32) }
```

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

Here you see how a box with a 4 pixel rgb(255, 0, 32) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 0, 32); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 0, 32);  
box-shadow:4px 4px 4px 4px rgb(255, 0, 32)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 41.5007, 21.3643, 3.3029 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 0, 32) }
```

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

```
.background{ background-color: rgb(255, 0,  
32) }
```

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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