

# Converting Colors

XYZ(42.1572, 21.6269, 6.7598)

Have a look what the booklet for  
XYZ(42.1572, 21.6269, 6.7598)  
contains.

<b>XYZ(42.1654, 21.6302, 6.8032)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(42.1654, 21.6302,  
6.8032)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF0040
RGB	255, 0, 64
RGB Percent	100%, 0%, 25%
CMY	0.0000, 0.9997, 0.7490
CMYK	0.00, 1.00, 0.75, 0.00
HSL	345°, 100%, 50%
HSV	345°, 100%, 100%
XYZ	42.1654, 21.6302, 6.8032
YIQ	83.5410, 131.4360, 73.9640

# Conversions

## Conversions Part 2

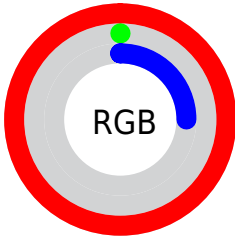
<b>Format</b>	<b>Color</b>
<b>RYB</b>	255, 0, 64
Decimal	16711744
CIELab	53.63, 81.20, 40.69
CIELCh	54, 90.824, 26.619
Yxy	21.6302, 0.5973, 0.3064
Android (android.graphics.Color)	4294901824 (0xFFFF0040)
YUV	83.5410, -9.6337, 150.3695
Hunter-Lab	46.5083, 80.4424, 23.8829

# Details

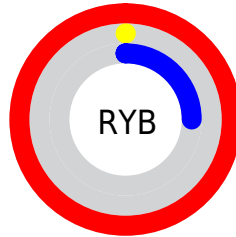
The XYZ color **42.1654, 21.6302, 6.8032** is a dark color, and the websafe version is hex **FF0033**. The color can be described as dark saturated red. A complement of this color would be **45.1724, 75.2846, 61.4819**, and the grayscale version is **8.3409, 8.7752, 9.5562**.

A 20% lighter version of the original color is **48.4393, 30.9792, 18.7558**, and **21.1311, 10.8767, 1.7447** is the 20% darker color. If you saturate the color by 10%, you get **42.1635, 21.6294, 6.7951**, and if you desaturate by 10%, it is **43.1651, 22.6060, 10.2934**.

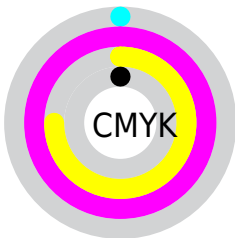
# Distribution



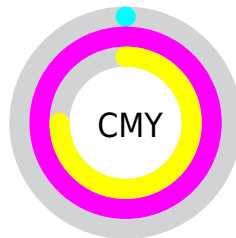
- Red (100%)
- Green (0%)
- Blue (25%)



- Red (100%)
- Yellow (0%)
- Blue (25%)



- Cyan (0%)
- Magenta (100%)
- Yellow (75%)
- Black (0%)




- Cyan (0%)
- Magenta (100%)
- Yellow (75%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.1654, 21.6302, 6.8032 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 42.1654, 21.6302, 6.8032 by changing the saturation by 10% instead.




 42.1654, 21.6302,  
6.8032


 42.1654, 21.6302,  
6.8032


346.1481,  
260.6090, 175.5867


 29.4225, 13.5854,  
3.2628


 77.7135, 46.1340,  
20.0823


 19.5466, 7.8329,  
1.2303


 101.2494, 63.3619,  
30.6580

 12.1722, 3.9882,  
0.0036

 129.1137, 84.4196,  
44.4159

 6.9341, 1.6670,  
0.0000

 161.6717,  
109.6914, 61.7745

 3.4669, 0.4021,  
0.0000

 199.2887,  
139.5619, 83.1523

 1.4052, 0.0000,  
0.0000

 242.3303,

 0.2599, 0.0000,

174.4154, 108.9679

0.0000

291.1616,  
214.6363, 139.6399

■ 0.0000, 0.0000,  
0.0000

■ 42.1654, 21.6302,  
6.8032

■ 42.1654, 21.6302,  
6.8032

■ 42.1635, 21.6294,  
6.7951

■ 43.1651, 22.6060,  
10.2934

■ 44.8354, 24.5973,  
15.0100

■ 47.3343, 27.8962,  
21.0808

■ 50.7629, 32.6827,  
28.6072

■ 55.2070, 39.1083,  
37.6801

■ 60.7422, 47.3057,  
48.3826

■ 67.4369, 57.3939,  
60.7914

■ 75.3536, 69.4813,  
74.9783

■ 84.5503, 83.6686,  
91.0108

# Harmonies

## Analogous

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



45.3849, 21.6302, 26.8471



42.1654, 21.6302, 6.8032



32.6325, 21.6302, 1.1765

# Triad

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



42.1654, 21.6302, 6.8032



8.5805, 21.6302, 4.6851



19.4775, 21.6302, 127.3499

# Complementary

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



42.1654, 21.6302, 6.8032



45.1724, 75.2846, 61.4819

# 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.



11.9048, 21.6302, 102.3173



42.1654, 21.6302, 6.8032



6.9890, 21.6302, 20.5375

# Square

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



42.1654, 21.6302, 6.8032



13.2791, 21.6302, 0.7881



7.9803, 21.6302, 56.5352



30.1061, 21.6302, 110.9430



# Rectangle

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



42.1654, 21.6302, 6.8032



25.1878, 21.6302, 0.2874



7.9803, 21.6302, 56.5352



16.5349, 21.6302, 123.2116

# Sweetspot

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



42.1659, 21.6316, 6.8035



67.4167, 57.3628, 60.7540



38.5487, 17.7887, 96.0088



13.7949, 11.3172, 11.8389



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.



42.1659, 21.6316, 6.8035



42.1639, 21.6296, 6.7951



42.8327, 24.4453, 2.4630



18.1962, 18.0618, 19.6504



22.0815, 11.3219, 3.8135



2.1916, 1.1190, 0.5902



# Inverse Universe

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



42.1659, 21.6316, 6.8035



42.1639, 21.6296, 6.7951



37.6817, 46.4824, 101.5929



18.1962, 18.0618, 19.6504



22.0815, 11.3219, 3.8135



2.1916, 1.1190, 0.5902



# Previews

## White Background



This preview shows how the XYZ color 42.1654, 21.6302, 6.8032 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 42.1654, 21.6302, 6.8032 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 42.1654, 21.6302, 6.8032**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.1654, 21.6302, 6.8032.



This preview shows how white text looks on a background with the XYZ color 42.1654, 21.6302,



# 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

42.1654, 21.6302, 6.8032

### Protanopia

20.6090, 22.0340, 14.2331

### Deuteranopia

22.3566, 21.9733, 6.0806



## Tritanopia

41.3436, 21.8501, 2.5688

# Trichromacy



## Original Color

42.1654, 21.6302, 6.8032

## Protanomaly

23.6736, 16.4984, 10.3243

## Deuteranomaly

25.9197, 17.3267, 5.5927

## Tritanomaly

41.3622, 21.5872, 3.5001

# Monochromacy



## Original Color

42.1654, 21.6302, 6.8032

## Achromatopsia

8.4267, 8.8656, 9.6546

## Achromatomaly

14.4667, 9.1930, 8.0331

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.1654, 21.6302, 6.8032 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, 64)` looks like.

```
.text, #text, p{  
    color:rgb(255, 0, 64)  
}
```

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, 64) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 0, 64) }
```

## Border

The CSS property to change the border of an element to XYZ 42.1654, 21.6302, 6.8032 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, 64) }
```



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

```
.border{ border-color:rgb(255, 0, 64) }
```

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, 64)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 0, 64); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 0, 64);  
box-shadow:4px 4px 4px 4px rgb(255, 0, 64)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 42.1654, 21.6302, 6.8032 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, 64) }
```

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

```
.background{ background-color: rgb(255, 0,  
64) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor