

# Converting Colors

XYZ(33.2371, 21.9557, 5.3724)

Have a look what the booklet for  
XYZ(33.2371, 21.9557, 5.3724)  
contains.

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# Color

**XYZ(33.3974, 22.0930,  
5.4099)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	DC5631
RGB	220, 86, 49
RGB Percent	86%, 34%, 19%
CMY	0.1373, 0.6627, 0.8078
CMYK	0.00, 0.61, 0.78, 0.14
HSL	13°, 71%, 53%
HSV	13°, 78%, 86%
XYZ	33.3974, 22.0930, 5.4099
YIQ	121.8480, 91.7410, 16.9010

# Conversions

## Conversions Part 2

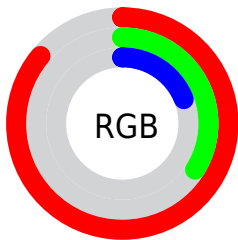
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	220, 96, 49
Decimal	14439985
CIE <sub>Lab</sub>	54.13, 50.56, 47.38
CIE <sub>LCh</sub>	54, 69.292, 43.140
Yxy	22.0930, 0.5484, 0.3628
Android (android.graphics.Color)	4292630065 (0xFFDC5631)
YUV	121.8480, -35.9141, 86.0793
Hunter-Lab	47.0032, 44.5749, 26.0782

# Details

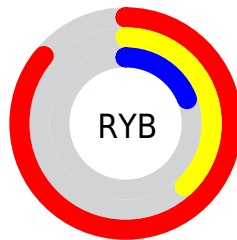
The XYZ color **33.3974, 22.0930, 5.4099** is a dark color, and the websafe version is hex **FF6633**. The color can be described as dark muted red. A complement of this color would be **31.1168, 39.6841, 73.7295**, and the grayscale version is **18.5425, 19.5082, 21.2444**.

A 20% lighter version of the original color is **52.8227, 40.8980, 16.6653**, and **14.3440, 8.0468, 0.7972** is the 20% darker color. If you saturate the color by 10%, you get **31.8268, 19.5227, 3.1278**, and if you desaturate by 10%, it is **35.5273, 25.4203, 8.9956**.

# Distribution



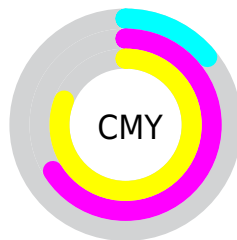
- Red (86%)
- Green (34%)
- Blue (19%)



- Red (86%)
- Yellow (38%)
- Blue (19%)



- Cyan (0%)
- Magenta (61%)
- Yellow (78%)
- Black (14%)




- Cyan (14%)
- Magenta (66%)
- Yellow (81%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.3974, 22.0930, 5.4099 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 33.3974, 22.0930, 5.4099 by changing the saturation by 10% instead.





 33.3974, 22.0930,  
5.4099


 33.3974, 22.0930,  
5.4099

309.0701,  
263.0316, 162.8015


 22.5917, 13.9253,  
2.4268


 64.3460, 46.8997,  
17.1492


 14.4114, 8.0687,  
0.8010


 85.2197, 64.3074,  
26.7425

 8.4909, 4.1389,  
0.0000


 110.1800, 85.5638,  
39.3763

 4.4651, 1.7516,  
0.0000

 139.5925,  
111.0535, 55.4691

 1.9685, 0.4567,  
0.0000

 173.8224,  
141.1607, 75.4395

 0.6162, 0.0000,  
0.0000

 213.2350,

 0.0000, 0.0000,

176.2698, 99.7060

0.0000

258.1958,  
216.7653, 128.6872

■ 33.3974, 22.0930,  
5.4099

■ 33.3974, 22.0930,  
5.4099

■ 31.8268, 19.5227,  
3.1278

■ 35.5273, 25.4203,  
8.9956

■ 30.7496, 17.6408,  
1.9280

■ 38.2659, 29.5561,  
14.0443

■ 30.5562, 17.2978,  
1.7283

■ 41.6586, 34.5515,  
20.6935

■ 45.7457, 40.4523,  
29.0644

■ 50.5642, 47.3009,  
39.2664

■ 56.1482, 55.1370,  
51.3999

■ 62.5300, 63.9981,  
65.5578

■ 69.7395, 73.9194,  
81.8271

■ 77.8056, 84.9348,  
100.2898

# Harmonies

## Analogous

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



38.4351, 22.0930, 15.8253



33.3974, 22.0930, 5.4099



25.4720, 22.0930, 2.2145

# Triad

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



33.3974, 22.0930, 5.4099



9.9885, 22.0930, 13.9433



24.4557, 22.0930, 90.9914

# Complementary

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



33.3974, 22.0930, 5.4099



31.1168, 39.6841, 73.7295

# 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.



17.0825, 22.0930, 89.3146



33.3974, 22.0930, 5.4099



9.8413, 22.0930, 34.7356

# Square

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



33.3974, 22.0930, 5.4099



12.5910, 22.0930, 4.7377



12.1255, 22.0930, 64.8660



32.5022, 22.0930, 68.6145



# Rectangle

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



33.3974, 22.0930, 5.4099



20.2177, 22.0930, 1.8828



12.1255, 22.0930, 64.8660



21.7997, 22.0930, 93.4920

# Sweetspot

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



33.3979, 22.0943, 5.4103



74.0547, 70.8835, 62.2124



39.4550, 20.9490, 48.3069



15.2619, 14.3434, 12.0436



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.



33.3979, 22.0943, 5.4103



43.4868, 25.5808, 3.2114



44.2016, 43.7017, 9.0115



13.2834, 13.5061, 13.6324



18.0003, 10.2861, 1.0367



1.2300, 0.7942, 0.0885

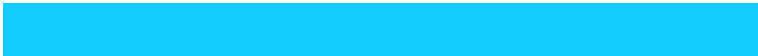


# Inverse Universe

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



31.1168, 39.6841, 73.7295



39.8127, 50.3792, 102.2336



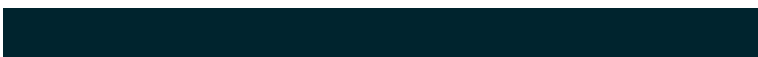
18.7710, 14.9925, 69.6142



13.1933, 14.3264, 16.7220



16.3679, 20.6052, 42.8529

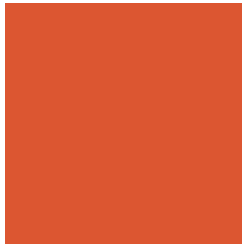


1.1210, 1.4562, 2.7964



# Previews

## White Background



This preview shows how the XYZ color 33.3974, 22.0930, 5.4099 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 33.3974, 22.0930, 5.4099 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 33.3974, 22.0930, 5.4099**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.3974, 22.0930, 5.4099.



This preview shows how white text looks on a background with the XYZ color 33.3974, 22.0930,



# 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

33.3974, 22.0930, 5.4099

### Protanopia

20.3537, 22.2424, 7.7779

### Deuteranopia

22.5534, 22.0989, 4.9963



## Tritanopia

34.5564, 22.0949, 11.4602

# Trichromacy



## Original Color

33.3974, 22.0930, 5.4099

## Protanomaly

23.7691, 21.1007, 6.6910

## Deuteranomaly

25.7791, 21.5166, 5.0799

## Tritanomaly

34.1146, 22.0397, 8.7594

# Monochromacy



## Original Color

33.3974, 22.0930, 5.4099

## Achromatopsia

18.4984, 19.4618, 21.1939

## Achromatomaly

21.6347, 19.0326, 13.3599

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.3974, 22.0930, 5.4099 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(220, 86, 49)` looks like.

```
.text, #text, p{  
    color:rgb(220, 86, 49)  
}
```

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(220, 86, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(220, 86, 49) }
```

## Border

The CSS property to change the border of an element to XYZ 33.3974, 22.0930, 5.4099 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(220, 86, 49) }
```



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

```
.border{ border-color:rgb(220, 86, 49) }
```

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

Here you see how a box with a 4 pixel rgb(220, 86, 49) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(220, 86, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(220, 86, 49);  
box-shadow:4px 4px 4px 4px rgb(220, 86,  
49) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.3974, 22.0930, 5.4099 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(220, 86, 49) }
```

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

```
.background{ background-color: rgb(220, 86,  
49) }
```

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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