

# Converting Colors

XYZ(48.0891, 54.8704, 22.2777)

Have a look what the booklet for  
XYZ(48.0891, 54.8704, 22.2777)  
contains.

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# Color

**XYZ(48.0320, 54.7669,  
22.2269)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CCC76C
RGB	204, 199, 108
RGB Percent	80%, 78%, 42%
CMY	0.2000, 0.2196, 0.5765
CMYK	0.00, 0.02, 0.47, 0.20
HSL	57°, 48%, 61%
HSV	57°, 47%, 80%
XYZ	48.0320, 54.7669, 22.2269
YIQ	190.1210, 32.1910, -27.2410

# Conversions

## Conversions Part 2

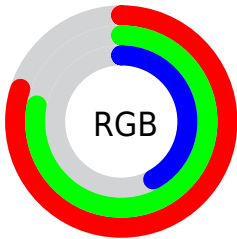
<b>Format</b>	<b>Color</b>
<b>RYB</b>	113, 204, 108
Decimal	13420396
CIELab	78.91, -10.82, 45.87
CIELCh	79, 47.130, 103.273
Yxy	54.7669, 0.3842, 0.4380
Android (android.graphics.Color)	4291610476 (0xFFCCC76C)
YUV	190.1210, -40.4857, 12.1719
Hunter-Lab	74.0047, -13.6545, 33.9958

# Details

The XYZ color **48.0320, 54.7669, 22.2269** is a light color, and the websafe version is hex **CCCC66**. A complement of this color would be **22.9885, 19.3575, 59.6513**, and the grayscale version is **49.2275, 51.7911, 56.4005**.

A 20% lighter version of the original color is **83.4330, 95.3532, 47.7258**, and **23.0767, 26.8421, 7.8357** is the 20% darker color. If you saturate the color by 10%, you get **46.8281, 53.8979, 17.0817**, and if you desaturate by 10%, it is **49.4943, 55.7459, 28.7127**.

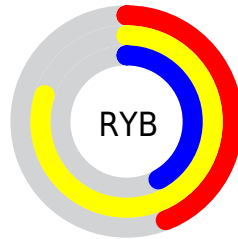
# Distribution



Red (80%)

Green (78%)

Blue (42%)



Red (44%)

Yellow (80%)

Blue (42%)

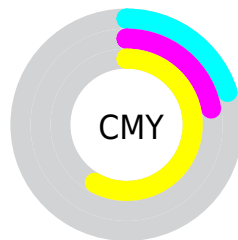


Cyan (0%)

Magenta (2%)

Yellow (47%)

Black (20%)



Cyan (20%)

Magenta (22%)


Yellow (58%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.0320, 54.7669, 22.2269 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 48.0320, 54.7669, 22.2269 by changing the saturation by 10% instead.





 48.0320, 54.7669,  
22.2269


 48.0320, 54.7669,  
22.2269


369.4994,  
405.0277, 276.7210


 34.0636, 39.2151,  
13.8238


 86.4615, 97.1993,  
48.0277


 23.1056, 26.9271,  
7.8609


 111.6532,  
124.8488, 66.2625

 14.7926, 17.5185,  
3.9196


 141.3168,  
157.2996, 88.6117

 8.7593, 10.6049,  
1.5813

 175.8175,  
194.9362, 115.4936

 4.6404, 5.8018,  
0.2774

215.5208,  
238.1429, 147.3270

 2.0704, 2.7249,  
0.0000

260.7920,

 0.6731, 0.9899,

287.3041, 184.5303

0.0000

311.9964,  
342.8042, 227.5222

■ 0.0000, 0.0000,  
0.0000

■ 48.0320, 54.7669,  
22.2269

■ 48.0320, 54.7669,  
22.2269

■ 46.8281, 53.8979,  
17.0817

■ 49.4943, 55.7459,  
28.7127

■ 45.8606, 53.1243,  
13.1790

■ 51.2273, 56.8339,  
36.6213

■ 45.1105, 52.4403,  
10.4129


■ 53.2472, 58.0395,  
46.0322


■ 44.5541, 51.8365,  
8.6583


■ 55.5678, 59.3680,  
57.0182


■ 44.1595, 51.3001,  
7.7468

■ 58.2020, 60.8248,  
69.6472

 44.0573, 51.1484,  
7.5506

 61.1620, 62.4146,  
83.9832

 64.4593, 64.1420,  
100.0869

 65.3849, 64.9236,  
103.6931

 65.6437, 65.4412,  
103.7794

# Harmonies

## Analogous

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



57.4061, 54.7669, 22.6459



48.0320, 54.7669, 22.2269



40.6700, 54.7669, 29.4333

# Triad

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



48.0320, 54.7669, 22.2269



40.0229, 54.7669, 102.3837



71.2554, 54.7669, 75.7252

# Complementary

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



48.0320, 54.7669, 22.2269



22.9885, 19.3575, 59.6513

# 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.



65.3865, 54.7669, 105.5654



48.0320, 54.7669, 22.2269



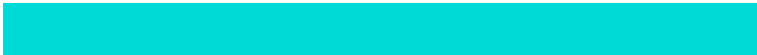
47.0459, 54.7669, 123.8405

# Square

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



48.0320, 54.7669, 22.2269



36.4336, 54.7669, 72.2610



56.2951, 54.7669, 125.1537



71.6021, 54.7669, 48.5672



# Rectangle

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



48.0320, 54.7669, 22.2269



37.5819, 54.7669, 39.3305



56.2951, 54.7669, 125.1537



69.8337, 54.7669, 85.9368

# Sweetspot

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



48.0333, 54.7694, 22.2280



89.2361, 96.7310, 81.1928



33.3248, 24.7871, 19.0679



18.9280, 20.6046, 16.5675



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.



48.0333, 54.7694, 22.2280



77.6114, 89.3055, 28.5348



39.2816, 51.9918, 22.1532



12.1019, 12.9928, 11.9495



27.7520, 32.2369, 4.7597



1.4474, 1.6944, 0.2508



# Inverse Universe

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



22.9885, 19.3575, 59.6513



31.4295, 24.0218, 97.5879



28.7663, 21.5316, 59.7664



10.6478, 10.9360, 14.1200



6.9536, 2.9312, 36.1556



0.3755, 0.1848, 1.8708



# Previews

## White Background



This preview shows how the XYZ color 48.0320, 54.7669, 22.2269 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 48.0320, 54.7669, 22.2269 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 ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 48.0320, 54.7669, 22.2269**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.0320, 54.7669, 22.2269.



This preview shows how white text looks on a background with the XYZ color 48.0320, 54.7669,



# 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

48.0320, 54.7669, 22.2269

### Protanopia

50.1933, 54.5388, 21.7915

### Deuteranopia

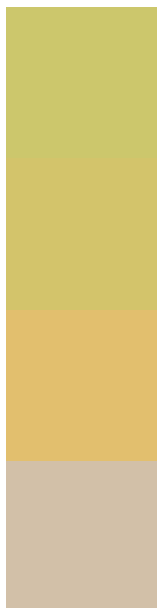
55.6880, 54.4427, 22.6123



## Tritanopia

56.4943, 54.5744, 64.0563

# Trichromacy



## Original Color

48.0320, 54.7669, 22.2269

## Protanomaly

49.2577, 54.3903, 21.8121

## Deuteranomaly

52.8093, 54.5561, 22.4989

## Tritanomaly

52.4959, 54.2281, 44.7460

# Monochromacy



## Original Color

48.0320, 54.7669, 22.2269

## Achromatopsia

48.9429, 51.4918, 56.0745

## Achromatomaly

47.9208, 52.2801, 40.8231

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.0320, 54.7669, 22.2269 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(204, 199, 108)` looks like.

```
.text, #text, p{  
    color:rgb(204, 199, 108)  
}
```

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(204, 199, 108) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 199, 108) }
```

## Border

The CSS property to change the border of an element to XYZ 48.0320, 54.7669, 22.2269 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(204, 199, 108) }
```



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

```
.border{ border-color:rgb(204, 199, 108) }
```

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

Here you see how a box with a 4 pixel `rgb(204, 199, 108)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 199, 108); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 199, 108);  
box-shadow:4px 4px 4px 4px rgb(204, 199,  
108) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.0320, 54.7669, 22.2269 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 199, 108) }
```

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

```
.background{ background-color: rgb(204,  
199, 108) }
```

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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