

# Converting Colors

XYZ(48.8695, 54.8702, 16.3772)

Have a look what the booklet for  
XYZ(48.8695, 54.8702, 16.3772)  
contains.

<b>XYZ(48.9457, 55.0253, 16.4287)</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(48.9457, 55.0253,  
16.4287)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D4C654
RGB	212, 198, 84
RGB Percent	83%, 78%, 33%
CMY	0.1686, 0.2235, 0.6706
CMYK	0.00, 0.07, 0.60, 0.17
HSL	53°, 60%, 58%
HSV	53°, 60%, 83%
XYZ	48.9457, 55.0253, 16.4287
YIQ	189.1900, 44.9380, -32.4860

# Conversions

## Conversions Part 2

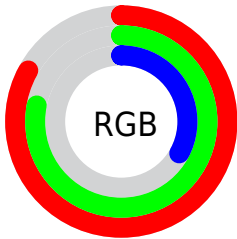
<b>Format</b>	<b>Color</b>
<b>RYB</b>	100, 212, 84
Decimal	13944404
CIELab	79.06, -8.95, 57.42
CIELCh	79, 58.109, 98.863
Yxy	55.0253, 0.4065, 0.4570
Android (android.graphics.Color)	4292134484 (0xFFD4C654)
YUV	189.1900, -51.8587, 20.0044
Hunter-Lab	74.1790, -12.0333, 38.7942

# Details

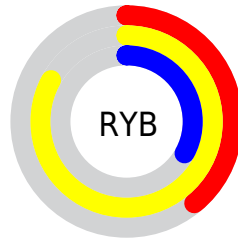
The XYZ color **48.9457, 55.0253, 16.4287** is a light color, and the websafe version is hex **CCCC66**. The color can be described as light muted yellow. A complement of this color would be **19.9075, 15.3732, 64.2052**, and the grayscale version is **48.7494, 51.2882, 55.8529**.

A 20% lighter version of the original color is **81.2693, 93.9786, 37.9011**, and **23.5093, 26.9004, 5.0518** is the 20% darker color. If you saturate the color by 10%, you get **47.7126, 53.6928, 12.5229**, and if you desaturate by 10%, it is **50.4408, 56.4796, 21.6626**.

# Distribution



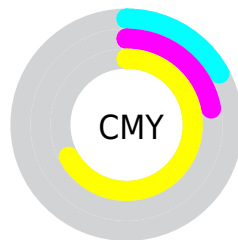
- Red (83%)
- Green (78%)
- Blue (33%)



- Red (39%)
- Yellow (83%)
- Blue (33%)



- Cyan (0%)
- Magenta (7%)
- Yellow (60%)
- Black (17%)



- Cyan (17%)
- Magenta (22%)
- Yellow (67%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.9457, 55.0253, 16.4287 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 48.9457, 55.0253, 16.4287 by changing the saturation by 10% instead.



■ 48.9457, 55.0253,  
16.4287

■ 48.9457, 55.0253,  
16.4287

373.0490,  
406.0078, 243.7897

■ 34.7908, 39.4220,  
9.6704

■ 87.8120, 97.5780,  
38.1180

■ 23.6675, 27.0882,  
5.0782

■ 113.2541,  
125.2962, 53.8860

■ 15.2106, 17.6394,  
2.2337

■ 143.1893,  
157.8215, 73.4943

■ 9.0546, 10.6914,  
0.6937

■ 177.9829,  
195.5382, 97.3615

■ 4.8342, 5.8598,  
0.0000

218.0003,  
238.8308, 125.9061

■ 2.1841, 2.7600,  
0.0000

263.6069,

■ 0.7343, 1.0078,

288.0837, 159.5467

0.0000

315.1680,  
343.6812, 198.7017

■ 0.0000, 0.0000,  
0.0000

■ 48.9457, 55.0253,  
16.4287

■ 48.9457, 55.0253,  
16.4287

■ 47.7126, 53.6928,  
12.5229

■ 50.4408, 56.4796,  
21.6626

■ 46.7140, 52.4651,  
9.8181

■ 52.2145, 58.0564,  
28.3293

■ 45.9233, 51.3333,  
8.1687

■ 54.2867, 59.7656,  
36.5272

■ 45.3105, 50.3154,  
7.3237

■ 56.6742, 61.6141,  
46.3449

■ 59.3925, 63.6081,  
57.8642

■ 62.4562, 65.7535,  
71.1614

■ 65.8790, 68.0559,  
86.3082

■ 69.6736, 70.5204,  
103.3724

■ 70.4978, 71.8101,  
104.7528

# Harmonies

## Analogous

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



60.7413, 55.0253, 17.9626



48.9457, 55.0253, 16.4287



39.5430, 55.0253, 22.7298

# Triad

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



48.9457, 55.0253, 16.4287



36.8162, 55.0253, 109.4568



75.9218, 55.0253, 85.9569

# Complementary

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



48.9457, 55.0253, 16.4287



19.9075, 15.3732, 64.2052

# 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.



67.5418, 55.0253, 124.4959



48.9457, 55.0253, 16.4287



44.6792, 55.0253, 141.1795

# Square

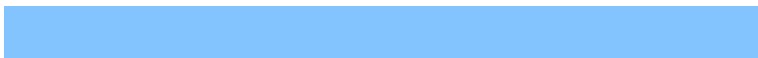
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



48.9457, 55.0253, 16.4287



33.2504, 55.0253, 70.2786



55.8039, 55.0253, 147.5167



77.5114, 55.0253, 50.6207



# Rectangle

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



48.9457, 55.0253, 16.4287



35.4719, 55.0253, 32.6324



55.8039, 55.0253, 147.5167



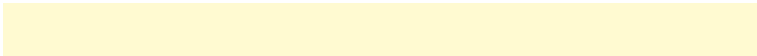
73.7521, 55.0253, 99.2771

# Sweetspot

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



48.9470, 55.0279, 16.4298



86.9409, 94.2283, 73.9921



32.5709, 21.2378, 14.1710



18.3628, 19.9841, 14.8070



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.



48.9470, 55.0279, 16.4298



72.0776, 81.0949, 17.8827



40.2345, 55.5065, 16.9814



13.3515, 14.2772, 13.2128



28.0179, 31.1531, 4.5364



1.7238, 1.9468, 0.2849



# Inverse Universe

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



19.9075, 15.3732, 64.2052



24.4596, 16.1381, 96.4335



24.7379, 16.0867, 64.0883



11.8508, 12.2251, 15.6726



7.5639, 3.3895, 38.7087



0.4939, 0.2799, 2.3473



# Previews

## White Background



This preview shows how the XYZ color 48.9457, 55.0253, 16.4287 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 48.9457, 55.0253, 16.4287 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 48.9457, 55.0253, 16.4287**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.9457, 55.0253, 16.4287.



This preview shows how white text looks on a background with the XYZ color 48.9457, 55.0253,



# 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

48.9457, 55.0253, 16.4287

### Protanopia

50.2147, 55.0098, 16.1550

### Deuteranopia

55.8972, 54.6832, 16.6256



## Tritanopia

58.4157, 54.9759, 62.1762

# Trichromacy



## Original Color

48.9457, 55.0253, 16.4287

## Protanomaly

49.8465, 55.1560, 16.2026

## Deuteranomaly

53.0482, 54.4877, 16.5253

## Tritanomaly

53.7984, 54.3556, 40.0039

# Monochromacy



## Original Color

48.9457, 55.0253, 16.4287

## Achromatopsia

48.3692, 50.8881, 55.4172

## Achromatomaly

47.4615, 51.8040, 36.7758

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.9457, 55.0253, 16.4287 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(212, 198, 84)` looks like.

```
.text, #text, p{  
    color:rgb(212, 198, 84)  
}
```

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(212, 198, 84) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(212, 198, 84) }
```

## Border

The CSS property to change the border of an element to XYZ 48.9457, 55.0253, 16.4287 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(212, 198, 84) }
```



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

```
.border{ border-color:rgb(212, 198, 84) }
```

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

Here you see how a box with a 4 pixel rgb(212, 198, 84) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(212, 198, 84); -webkit-box-  
shadow:4px 4px 4px 4px rgb(212, 198, 84);  
box-shadow:4px 4px 4px 4px rgb(212, 198,  
84) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.9457, 55.0253, 16.4287 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(212, 198, 84) }
```

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

```
.background{ background-color: rgb(212,  
198, 84) }
```

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