

# Converting Colors

XYZ(48.5557, 69.9255, 64.0316)

Have a look what the booklet for  
XYZ(48.5557, 69.9255, 64.0316)  
contains.

<b>XYZ(48.5743, 70.1333, 63.8003)</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(48.5743, 70.1333,  
63.8003)**

# Conversions

## Conversions Part 1

Format	Color
Hex	75F0C5
RGB	117, 240, 197
RGB Percent	46%, 94%, 77%
CMY	0.5412, 0.0588, 0.2274
CMYK	0.51, 0.00, 0.18, 0.06
HSL	159°, 80%, 70%
HSV	159°, 51%, 94%
XYZ	48.5743, 70.1333, 63.8003
YIQ	198.3210, -59.5050, -39.4490

# Conversions

## Conversions Part 2

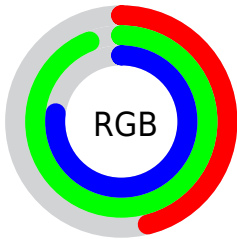
Format	Color
<a href="#">RYB</a>	<a href="#">117, 192, 240</a>
Decimal	<a href="#">7729349</a>
CIELab	<a href="#">87.06, -44.48, 10.33</a>
CIELCh	<a href="#">87, 45.664, 166.921</a>
Yxy	<a href="#">70.1333, 0.2661, 0.3843</a>
Android (android.graphics.Color)	<a href="#">4285919429</a> ( <a href="#">0xFF75F0C5</a> )
YUV	<a href="#">198.3210, -0.6513, -71.3185</a>
Hunter-Lab	<a href="#">83.7456, -43.0209, 13.4528</a>

# Details

The XYZ color **48.5743, 70.1333, 63.8003** is a light color, and the websafe version is hex **99FFCC**. A complement of this color would be **48.6440, 33.7878, 37.2184**, and the grayscale version is **53.9033, 56.7104, 61.7576**.

A 20% lighter version of the original color is **71.5539, 87.9059, 106.9622**, and **23.3596, 36.6070, 31.8213** is the 20% darker color. If you saturate the color by 10%, you get **44.8190, 68.3072, 58.7455**, and if you desaturate by 10%, it is **53.2135, 72.4125, 69.1789**.

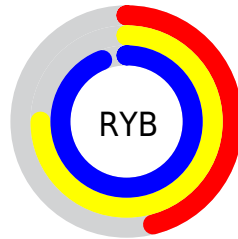
# Distribution



Red (46%)

Green (94%)

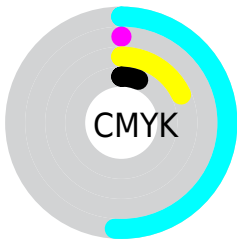
Blue (77%)



Red (46%)

Yellow (75%)

Blue (94%)

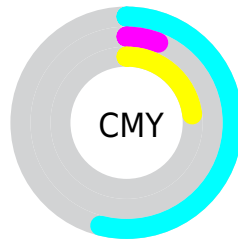


Cyan (51%)

Magenta (0%)

Yellow (18%)

Black (6%)



Cyan (54%)

Magenta (6%)


Yellow (23%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.5743, 70.1333, 63.8003 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 48.5743, 70.1333, 63.8003 by changing the saturation by 10% instead.





 48.5743, 70.1333,  
63.8003


 48.5743, 70.1333,  
63.8003


371.6088,  
461.0179, 456.6558


 34.4950, 51.6352,  
46.0438


 87.2634, 119.3988,  
111.9200

 23.4389, 36.7144,  
31.9315


 112.6040,  
150.9351, 143.1202

 15.0404, 24.9864,  
21.0448


 142.4290,  
187.5861, 179.6388

 8.9342, 16.0669,  
12.9652

177.1039,  
229.7364, 221.8943

 4.7551, 9.5715,  
7.2741

216.9939,  
277.7704, 270.3052

 2.1375, 5.1158,  
3.5531

262.4645,

 0.7095, 2.3154,

332.0723, 325.2901

1.3835

313.8811,  
393.0267, 387.2674

■ 0.0000, 0.7818,  
0.1288

■ 0.0000, 0.0000,  
0.0000

■ 48.5743, 70.1333,  
63.8003

■ 48.5743, 70.1333,  
63.8003

■ 44.8190, 68.3072,  
58.7455

■ 53.2135, 72.4125,  
69.1789

■ 41.8765, 66.8922,  
54.0022


■ 58.7893, 75.1664,  
74.8836


■ 39.6737, 65.8526,  
49.5638


■ 65.3571, 78.4254,  
80.9228


■ 38.1209, 65.1422,  
45.4214

■ 72.9660, 82.2146,  
87.3030

 37.1702, 64.7262,  
42.0295

 81.6619, 86.5576,  
94.0305

 89.2434, 90.3194,  
101.0063

 90.4513, 90.8026,  
107.3671

# Harmonies

## Analogous

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



52.7440, 70.1333, 42.7978



48.5743, 70.1333, 63.8003



48.8637, 70.1333, 94.8115

# Triad

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



48.5743, 70.1333, 63.8003



72.8233, 70.1333, 147.6694



81.7087, 70.1333, 40.9287

# Complementary

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



48.5743, 70.1333, 63.8003



48.6440, 33.7878, 37.2184

# 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.



88.3237, 70.1333, 60.4781



48.5743, 70.1333, 63.8003



82.8298, 70.1333, 124.0443

# Square

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



48.5743, 70.1333, 63.8003



62.1151, 70.1333, 149.2605



88.7546, 70.1333, 90.4757



71.4206, 70.1333, 32.1749



# Rectangle

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



48.5743, 70.1333, 63.8003



51.5389, 70.1333, 117.4688



88.7546, 70.1333, 90.4757



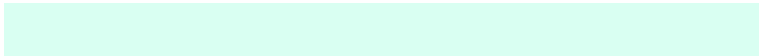
84.4814, 70.1333, 46.1765

# Sweetspot

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



48.5762, 70.1361, 63.8019



80.2721, 92.6219, 97.3583



48.8804, 71.0862, 27.9756



16.7856, 19.6277, 20.5070



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.



48.5762, 70.1361, 63.8019



51.4526, 78.3972, 67.4434



49.0684, 62.0797, 91.8377



15.9990, 17.8296, 19.0177



20.4121, 35.4568, 23.3507



1.7450, 2.9684, 2.1893



# Inverse Universe

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



48.6440, 33.7878, 37.2184



51.5633, 32.5967, 34.0726



47.8752, 37.2653, 21.5005



16.0010, 15.8501, 17.5614



20.6023, 10.5133, 5.8221

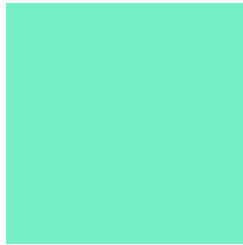


1.7593, 0.8928, 0.7235



# Previews

## White Background



This preview shows how the XYZ color 48.5743, 70.1333, 63.8003 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

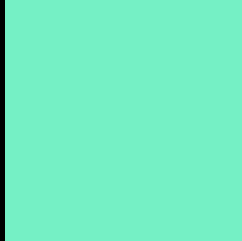
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.5743, 70.1333, 63.8003 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 48.5743, 70.1333, 63.8003**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.5743, 70.1333, 63.8003.



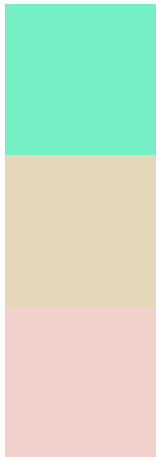
This preview shows how white text looks on a background with the XYZ color 48.5743, 70.1333, 63.8003.



# 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

48.5743, 70.1333, 63.8003

### Protanopia

65.3077, 69.1085, 55.7961

### Deuteranopia

70.3175, 68.8378, 66.7076



## Tritanopia

56.2244, 70.2294, 101.8591

# Trichromacy



## Original Color

48.5743, 70.1333, 63.8003



## Protanomaly

56.8496, 68.2159, 58.3148



## Deuteranomaly

59.1618, 67.2738, 65.1253



## Tritanomaly

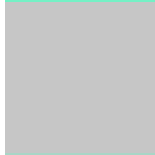
53.1717, 70.2725, 86.3628

# Monochromacy



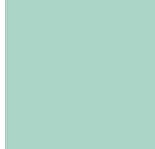
## Original Color

48.5743, 70.1333, 63.8003



## Achromatopsia

53.6758, 56.4712, 61.4971



## Achromatomaly

50.3495, 60.1007, 62.3730

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.5743, 70.1333, 63.8003 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(117, 240, 197)` looks like.

```
.text, #text, p{  
    color:rgb(117, 240, 197)  
}
```

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(117, 240, 197) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(117, 240, 197) }
```

## Border

The CSS property to change the border of an element to XYZ 48.5743, 70.1333, 63.8003 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(117, 240, 197) }
```



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

```
.border{ border-color:rgb(117, 240, 197) }
```

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

Here you see how a box with a 4 pixel `rgb(117, 240, 197)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(117, 240, 197); -webkit-box-shadow:4px 4px 4px 4px rgb(117, 240, 197); box-shadow:4px 4px 4px 4px rgb(117, 240, 197) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.5743, 70.1333, 63.8003 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(117, 240, 197) }
```

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

```
.background{ background-color: rgb(117,  
240, 197) }
```

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