

# Converting Colors

XYZ(37.7023, 48.2781, 52.4033)

Have a look what the booklet for  
XYZ(37.7023, 48.2781, 52.4033)  
contains.

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# Color

**XYZ(37.7946, 48.4742,  
52.1642)**

# Conversions

## Conversions Part 1

Format	Color
Hex	81C6B7
RGB	129, 198, 183
RGB Percent	51%, 78%, 72%
CMY	0.4941, 0.2235, 0.2823
CMYK	0.35, 0.00, 0.08, 0.22
HSL	167°, 38%, 64%
HSV	167°, 35%, 78%
XYZ	37.7946, 48.4742, 52.1642
YIQ	175.6590, -36.3090, -19.2930

# Conversions

## Conversions Part 2

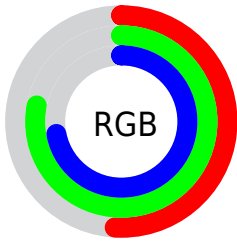
Format	Color
<a href="#">RYB</a>	<a href="#">129, 168, 198</a>
Decimal	<a href="#">8505015</a>
CIELab	<a href="#">75.12, -25.09, 0.61</a>
CIElCh	<a href="#">75, 25.102, 178.599</a>
Yxy	<a href="#">48.4742, 0.2730, 0.3502</a>
Android (android.graphics.Color)	<a href="#">4286695095</a> ( <a href="#">0xFF81C6B7</a> )
YUV	<a href="#">175.6590, 3.6191, -40.9199</a>
Hunter-Lab	<a href="#">69.6234, -24.9435, 4.3143</a>

# Details

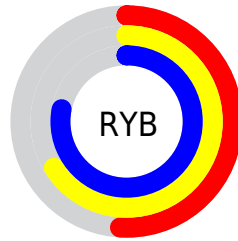
The XYZ color **37.7946, 48.4742, 52.1642** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **36.1747, 29.7212, 30.2177**, and the grayscale version is **41.0857, 43.2254, 47.0725**.

A 20% lighter version of the original color is **71.1072, 87.9423, 94.8882**, and **16.9830, 23.0947, 24.6817** is the 20% darker color. If you saturate the color by 10%, you get **34.6325, 46.8963, 49.7136**, and if you desaturate by 10%, it is **41.5559, 50.3619, 54.7165**.

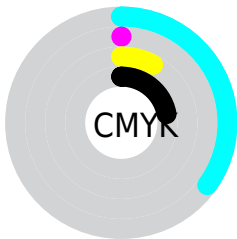
# Distribution



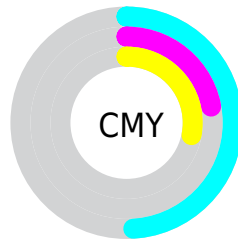
- Red (51%)
- Green (78%)
- Blue (72%)



- Red (51%)
- Yellow (66%)
- Blue (78%)



- Cyan (35%)
- Magenta (0%)
- Yellow (8%)
- Black (22%)



- Cyan (49%)
- Magenta (22%)
- Yellow (28%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.7946, 48.4742, 52.1642 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 37.7946, 48.4742, 52.1642 by changing the saturation by 10% instead.



■ 37.7946, 48.4742,  
52.1642

■ 37.7946, 48.4742,  
52.1642

328.0341,  
380.6687, 412.0452

■ 25.9998, 34.2026,  
36.7528

■ 71.0991, 87.9100,  
94.8024

■ 16.9562, 23.0493,  
24.7219

■ 93.3396, 113.8430,  
122.8663

■ 10.2984, 14.6299,  
15.6528

■ 119.7926,  
144.4319, 155.9848

■ 5.6610, 8.5600,  
9.1271

150.8236,  
180.0611, 194.5765

■ 2.6788, 4.4553,  
4.7263

186.7979,  
221.1149, 239.0598

■ 0.9863, 1.9314,  
2.0317

228.0808,

■ 0.0000, 0.5672,

267.9779, 289.8533

0.5746

275.0378,  
321.0343, 347.3756

■ 0.0000, 0.0000,  
0.0000

■ 37.7946, 48.4742,  
52.1642

■ 37.7946, 48.4742,  
52.1642

■ 34.6325, 46.8963,  
49.7136

■ 41.5559, 50.3619,  
54.7165

■ 32.0316, 45.6049,  
47.3591

■ 45.9436, 52.5696,  
57.3692

■ 29.9559, 44.5827,  
45.0996

■ 50.9879, 55.1143,  
60.1255

■ 28.3634, 43.8081,  
42.9322

■ 56.7160, 58.0099,  
62.9872

■ 27.2055, 43.2559,  
40.8542

■ 63.1536, 61.2695,  
65.9560

■ 26.4231, 42.8959,  
38.8621

■ 70.3249, 64.9058,  
69.0338

■ 26.1074, 42.7549,  
37.8664

■ 73.4625, 66.4609,  
71.9980

■ 74.0168, 66.6826,  
74.9171

■ 74.5858, 66.9102,  
77.9131

# Harmonies

## Analogous

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



38.9373, 48.4742, 40.6660



37.7946, 48.4742, 52.1642



38.7446, 48.4742, 65.8399

# Triad

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



37.7946, 48.4742, 52.1642



50.4324, 48.4742, 78.2535



50.8306, 48.4742, 33.9977

# Complementary

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



37.7946, 48.4742, 52.1642



36.1747, 29.7212, 30.2177

# 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.



54.2723, 48.4742, 41.5728



37.7946, 48.4742, 52.1642



54.0318, 48.4742, 67.0888

# Square

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



37.7946, 48.4742, 52.1642



45.8577, 48.4742, 82.3258



55.4804, 48.4742, 53.4010



46.2895, 48.4742, 31.3138



# Rectangle

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



37.7946, 48.4742, 52.1642



40.4749, 48.4742, 74.1218



55.4804, 48.4742, 53.4010



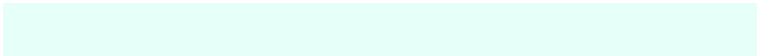
52.1654, 48.4742, 35.9871

# Sweetspot

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



37.7960, 48.4762, 52.1653



85.4030, 95.1284, 103.8561



35.8527, 48.0040, 28.1458



18.0108, 20.2257, 22.0810



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

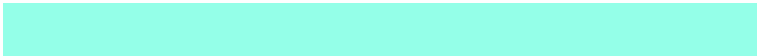


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



37.7960, 48.4762, 52.1653



62.4796, 83.6165, 88.9779



35.4884, 41.2273, 59.5156



10.8442, 12.0266, 13.1295



17.0104, 27.8165, 24.7971



0.8307, 1.3272, 1.3071



# Inverse Universe

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



36.1747, 29.7212, 30.2177



59.1826, 45.3558, 44.2563



37.7488, 34.5843, 25.4556



10.7267, 10.6741, 11.5441



15.4558, 7.9319, 2.3444

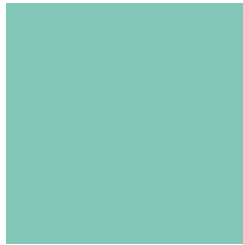


0.7597, 0.3867, 0.2575



# Previews

## White Background



This preview shows how the XYZ color 37.7946, 48.4742, 52.1642 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

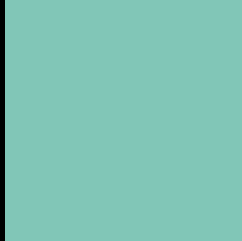
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.7946, 48.4742, 52.1642 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

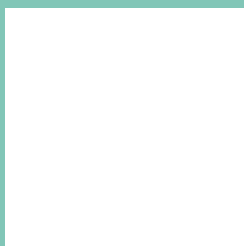
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 37.7946, 48.4742, 52.1642**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.7946, 48.4742, 52.1642.



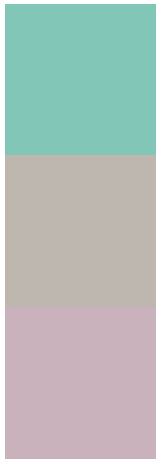
This preview shows how white text looks on a background with the XYZ color 37.7946, 48.4742,



# 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

37.7946, 48.4742, 52.1642

### Protanopia

45.9066, 47.9093, 47.3853

### Deuteranopia

48.9774, 47.8462, 53.6676



## Tritanopia

40.9163, 48.3876, 68.1560

# Trichromacy



## Original Color

37.7946, 48.4742, 52.1642

## Protanomaly

42.1676, 47.5056, 49.0665

## Deuteranomaly

43.8911, 47.3571, 53.2819

## Tritanomaly

39.6133, 48.1869, 61.8567

# Monochromacy



## Original Color

37.7946, 48.4742, 52.1642

## Achromatopsia

41.2663, 43.4154, 47.2793

## Achromatomaly

39.5752, 44.9066, 49.2298

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.7946, 48.4742, 52.1642 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(129, 198, 183)` looks like.

```
.text, #text, p{  
    color:rgb(129, 198, 183)  
}
```

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(129, 198, 183) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(129, 198, 183) }
```

## Border

The CSS property to change the border of an element to XYZ 37.7946, 48.4742, 52.1642 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(129, 198, 183) }
```



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

```
.border{ border-color:rgb(129, 198, 183) }
```

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

Here you see how a box with a 4 pixel `rgb(129, 198, 183)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(129, 198, 183); -webkit-box-  
shadow:4px 4px 4px 4px rgb(129, 198, 183);  
box-shadow:4px 4px 4px 4px rgb(129, 198,  
183) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.7946, 48.4742, 52.1642 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(129, 198, 183) }
```

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

```
.background{ background-color: rgb(129,  
198, 183) }
```

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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