

# Converting Colors

XYZ(37.2286, 49.7959, 48.2965)

Have a look what the booklet for  
XYZ(37.2286, 49.7959, 48.2965)  
contains.

<b>XYZ(37.1706, 49.6213, 48.1762)</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(37.1706, 49.6213,  
48.1762)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7CCA AF
RGB	124, 202, 175
RGB Percent	49%, 79%, 69%
CMY	0.5137, 0.2078, 0.3137
CMYK	0.39, 0.00, 0.13, 0.21
HSL	159°, 42%, 64%
HSV	159°, 39%, 79%
XYZ	37.1706, 49.6213, 48.1762
YIQ	175.6000, -37.8210, -24.9330

# Conversions

## Conversions Part 2

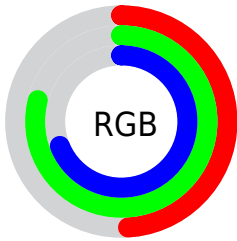
<b>Format</b>	<b>Color</b>
<b>RYB</b>	124, 171, 202
Decimal	8178351
CIELab	75.84, -30.20, 5.94
CIELCh	76, 30.781, 168.878
Yxy	49.6213, 0.2754, 0.3677
Android (android.graphics.Color)	4286368431 (0xFF7CCA AF)
YUV	175.6000, -0.2958, -45.2532
Hunter-Lab	70.4424, -29.0844, 8.7607

# Details

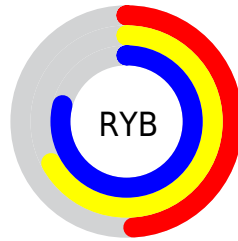
The XYZ color **37.1706, 49.6213, 48.1762** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **37.1524, 29.2076, 32.9597**, and the grayscale version is **41.0754, 43.2145, 47.0606**.

A 20% lighter version of the original color is **68.7742, 86.8732, 88.7447**, and **16.6908, 23.9120, 22.4747** is the 20% darker color. If you saturate the color by 10%, you get **33.8761, 48.0015, 44.5298**, and if you desaturate by 10%, it is **41.1014, 51.5676, 52.0402**.

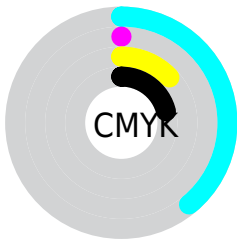
# Distribution



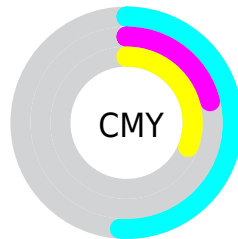
- Red (49%)
- Green (79%)
- Blue (69%)



- Red (49%)
- Yellow (67%)
- Blue (79%)



- Cyan (39%)
- Magenta (0%)
- Yellow (13%)
- Black (21%)



- Cyan (51%)
- Magenta (21%)
- Yellow (31%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.1706, 49.6213, 48.1762 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 37.1706, 49.6213, 48.1762 by changing the saturation by 10% instead.



■ 37.1706, 49.6213,  
48.1762

■ 37.1706, 49.6213,  
48.1762

325.3913,  
385.1831, 396.0190

■ 25.5139, 35.1126,  
33.6055

■ 70.1472, 89.6135,  
88.8350

■ 16.5911, 23.7496,  
22.3158

■ 92.1978, 115.8658,  
115.7601

■ 10.0369, 15.1480,  
13.8886

■ 118.4438,  
146.8014, 147.6404

■ 5.4859, 8.9233,  
7.9053

149.2505,  
182.8048, 184.8945

■ 2.5727, 4.6912,  
3.9475

184.9832,  
224.2602, 227.9408

■ 0.9321, 2.0672,  
1.5966

226.0073,

■ 0.0000, 0.6461,

271.5522, 277.1980

0.2884

272.6882,  
325.0650, 333.0845

■ 0.0000, 0.0000,  
0.0000

■ 37.1706, 49.6213,  
48.1762

■ 37.1706, 49.6213,  
48.1762

■ 33.8761, 48.0015,  
44.5298

■ 41.1014, 51.5676,  
52.0402

■ 31.1764, 46.6831,  
41.0931

■ 45.6986, 53.8519,  
56.1228

■ 29.0317, 45.6467,  
37.8624


■ 50.9951, 56.4925,  
60.4292


■ 27.3949, 44.8683,  
34.8327

■ 57.0205, 59.5046,  
64.9634


■ 26.2111, 44.3195,  
31.9983


■ 63.8028, 62.9025,  
69.7292


 25.3932, 43.9556,  
29.3522

 71.3682, 66.6998,  
74.7305

 25.2914, 43.9108,  
28.9993

 75.8094, 68.8820,  
79.7868

 76.7774, 69.2692,  
84.8841

 77.7849, 69.6722,  
90.1893

# Harmonies

## Analogous

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



39.3514, 49.6213, 35.8429



37.1706, 49.6213, 48.1762



37.5002, 49.6213, 64.8792

# Triad

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



37.1706, 49.6213, 48.1762



50.8138, 49.6213, 89.6646



54.7757, 49.6213, 33.5987

# Complementary

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



37.1706, 49.6213, 48.1762



37.1524, 29.2076, 32.9597

# 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.



58.3588, 49.6213, 44.4617



37.1706, 49.6213, 48.1762



55.9468, 49.6213, 77.5143

# Square

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



37.1706, 49.6213, 48.1762



45.0730, 49.6213, 91.2199



58.8039, 49.6213, 60.3380



49.3178, 49.6213, 28.6337



# Rectangle

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



37.1706, 49.6213, 48.1762



39.1065, 49.6213, 76.3184



58.8039, 49.6213, 60.3380



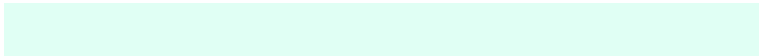
56.2576, 49.6213, 36.5665

# Sweetspot

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



37.1720, 49.6233, 48.1773



83.0156, 93.9877, 99.6784



37.5785, 50.3065, 26.7992



17.5120, 19.9892, 21.1278



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

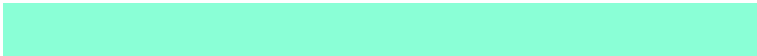


# Same Dimension

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



37.1720, 49.6233, 48.1773



58.3796, 81.7729, 76.5889



37.4530, 45.5083, 62.6894



11.3719, 12.6585, 13.5157



16.3174, 28.2723, 18.8882



0.8767, 1.4725, 1.1582



# Inverse Universe

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



37.1524, 29.2076, 32.9597



58.3522, 42.5777, 47.4238



36.7587, 31.5371, 23.2195



11.3700, 11.2767, 12.4829



16.4215, 8.3792, 4.6725



0.8828, 0.4465, 0.4286



# Previews

## White Background



This preview shows how the XYZ color 37.1706, 49.6213, 48.1762 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

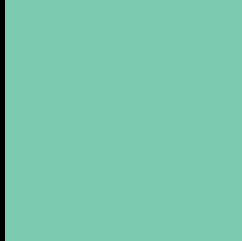
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.1706, 49.6213, 48.1762 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

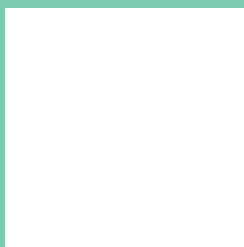
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 37.1706, 49.6213, 48.1762**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.1706, 49.6213, 48.1762.



This preview shows how white text looks on a background with the XYZ color 37.1706, 49.6213,



# 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

37.1706, 49.6213, 48.1762

### Protanopia

46.4800, 48.9204, 43.0692

### Deuteranopia

50.0131, 49.0596, 50.0135



## Tritanopia

41.5228, 49.6725, 69.6866

# Trichromacy



## Original Color

37.1706, 49.6213, 48.1762



## Protanomaly

42.1544, 48.5612, 44.6876



## Deuteranomaly

43.9236, 48.4109, 49.1487



## Tritanomaly

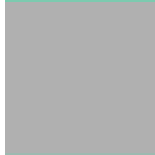
39.9381, 49.7162, 61.5241

# Monochromacy



## Original Color

37.1706, 49.6213, 48.1762



## Achromatopsia

41.2663, 43.4154, 47.2793



## Achromatomaly

39.0901, 45.0006, 47.7000

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.1706, 49.6213, 48.1762 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(124, 202, 175)` looks like.

```
.text, #text, p{  
    color:rgb(124, 202, 175)  
}
```

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(124, 202, 175) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(124, 202, 175) }
```

## Border

The CSS property to change the border of an element to XYZ 37.1706, 49.6213, 48.1762 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(124, 202, 175) }
```



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

```
.border{ border-color:rgb(124, 202, 175) }
```

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

Here you see how a box with a 4 pixel `rgb(124, 202, 175)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(124, 202, 175); -webkit-box-  
shadow:4px 4px 4px 4px rgb(124, 202, 175);  
box-shadow:4px 4px 4px 4px rgb(124, 202,  
175) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.1706, 49.6213, 48.1762 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(124, 202, 175) }
```

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

```
.background{ background-color: rgb(124,  
202, 175) }
```

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