

# Converting Colors

XYZ(35.0361, 46.7717, 49.4880)

Have a look what the booklet for  
XYZ(35.0361, 46.7717, 49.4880)  
contains.

<b>XYZ(34.9416, 46.7243, 49.2966)</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(34.9416, 46.7243,  
49.2966)**

# Conversions

## Conversions Part 1

Format	Color
Hex	72C5B2
RGB	114, 197, 178
RGB Percent	45%, 77%, 70%
CMY	0.5529, 0.2274, 0.3020
CMYK	0.42, 0.00, 0.10, 0.23
HSL	166°, 42%, 61%
HSV	166°, 42%, 77%
XYZ	34.9416, 46.7243, 49.2966
YIQ	170.0170, -43.3690, -23.5050

# Conversions

## Conversions Part 2

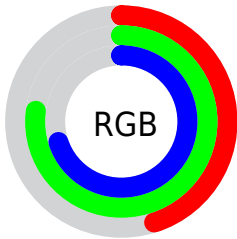
<b>Format</b>	<b>Color</b>
<b>RYB</b>	114, 161, 197
Decimal	7521714
CIELab	74.01, -29.80, 1.62
CIELCh	74, 29.849, 176.886
Yxy	46.7243, 0.2668, 0.3568
Android (android.graphics.Color)	4285711794 (0xFF72C5B2)
YUV	170.0170, 3.9356, -49.1269
Hunter-Lab	68.3552, -28.3764, 5.0897

# Details

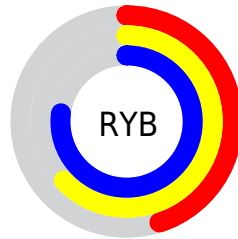
The XYZ color **34.9416, 46.7243, 49.2966** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **33.2785, 25.5997, 25.3794**, and the grayscale version is **38.2146, 40.2047, 43.7829**.

A 20% lighter version of the original color is **66.8707, 85.3702, 90.7955**, and **15.3278, 22.0554, 22.8513** is the 20% darker color. If you saturate the color by 10%, you get **32.2047, 45.3661, 46.8441**, and if you desaturate by 10%, it is **38.2479, 48.3767, 51.8555**.

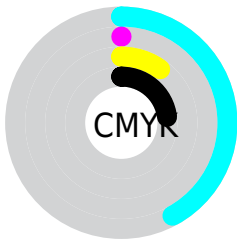
# Distribution



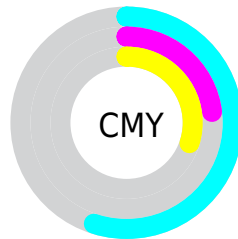
- Red (45%)
- Green (77%)
- Blue (70%)



- Red (45%)
- Yellow (63%)
- Blue (77%)



- Cyan (42%)
- Magenta (0%)
- Yellow (10%)
- Black (23%)




- Cyan (55%)
- Magenta (23%)
- Yellow (30%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 34.9416, 46.7243, 49.2966 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 34.9416, 46.7243, 49.2966 by changing the saturation by 10% instead.





 34.9416, 46.7243,  
49.2966


 34.9416, 46.7243,  
49.2966


315.8230,  
373.7130, 400.5648


 23.7842, 32.8178,  
34.4876


 66.7299, 85.3019,  
90.5174

 15.2975, 21.9869,  
22.9880


 88.0915, 110.7418,  
117.7661

 9.1161, 13.8473,  
14.3794


 113.5852,  
140.7950, 149.9986

 4.8747, 8.0145,  
8.2433

143.5764,  
175.8457, 187.6333

 2.2079, 4.1042,  
4.1610

178.4305,  
216.2785, 231.0887

 0.7469, 1.7320,  
1.7141

218.5127,

 0.0000, 0.4443,

262.4777, 280.7834

0.3704

264.1884,  
314.8277, 337.1359

■ 0.0000, 0.0000,  
0.0000

■ 34.9416, 46.7243,  
49.2966

■ 34.9416, 46.7243,  
49.2966

■ 32.2047, 45.3661,  
46.8441

■ 38.2479, 48.3767,  
51.8555

■ 29.9974, 44.2779,  
44.4923

■ 42.1523, 50.3346,  
54.5199

■ 28.2807, 43.4410,  
42.2398


■ 46.6863, 52.6153,  
57.2929


■ 27.0088, 42.8317,  
40.0836

■ 51.8782, 55.2334,  
60.1766


■ 26.1267, 42.4217,  
38.0204


■ 57.7542, 58.2023,  
63.1729

 25.6265, 42.1979,  
36.4580

 64.3394, 61.5351,  
66.2836

 71.6574, 65.2438,  
69.5106

 73.3553, 66.0534,  
72.5572

 73.9397, 66.2872,  
75.6350

# Harmonies

## Analogous

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



36.3664, 46.7243, 36.4642



34.9416, 46.7243, 49.2966



35.8812, 46.7243, 65.3371

# Triad

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



34.9416, 46.7243, 49.2966



49.2082, 46.7243, 81.8042



50.2482, 46.7243, 30.0363

# Complementary

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



34.9416, 46.7243, 49.2966



33.2785, 25.5997, 25.3794

# 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.



54.1935, 46.7243, 38.7216



34.9416, 46.7243, 49.2966



53.5600, 46.7243, 68.6554

# Square

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



34.9416, 46.7243, 49.2966



43.8555, 46.7243, 86.1751



55.4509, 46.7243, 52.4864



44.9692, 46.7243, 26.8326



# Rectangle

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



34.9416, 46.7243, 49.2966



37.7667, 46.7243, 75.4524



55.4509, 46.7243, 52.4864



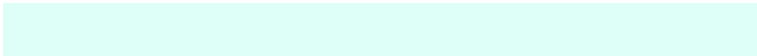
51.7900, 46.7243, 32.3142

# Sweetspot

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



34.9429, 46.7262, 49.2977



82.6902, 93.7667, 102.0689



32.7359, 46.1658, 23.1060



17.2940, 19.8660, 21.6061



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

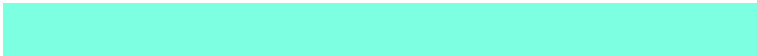


# Same Dimension

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



34.9429, 46.7262, 49.2977



57.8317, 81.3248, 84.0455



32.3230, 38.2184, 58.4988



10.8388, 12.0244, 13.1013



16.8881, 27.7676, 24.1532



0.8258, 1.3253, 1.2814



# Inverse Universe

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



33.2785, 25.5997, 25.3794



54.4605, 38.2718, 35.4055



34.8877, 30.7326, 20.0137



10.7317, 10.6761, 11.5703



15.4849, 7.9435, 2.4974

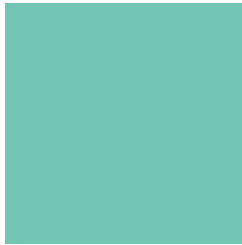


0.7619, 0.3876, 0.2694



# Previews

## White Background



This preview shows how the XYZ color 34.9416, 46.7243, 49.2966 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 34.9416, 46.7243, 49.2966 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

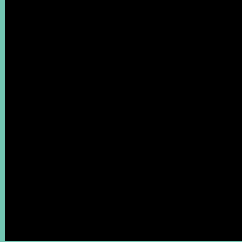
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 34.9416, 46.7243, 49.2966**

## **Background**



This preview shows how black text looks on a background with the XYZ color 34.9416, 46.7243, 49.2966.



This preview shows how white text looks on a background with the XYZ color 34.9416, 46.7243,



# 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

34.9416, 46.7243, 49.2966

### Protanopia

43.9762, 46.0719, 44.1111

### Deuteranopia

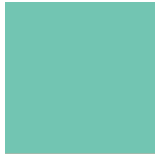
47.1659, 46.0846, 51.2091



## Tritanopia

38.4812, 46.8316, 66.6857

# Trichromacy



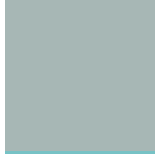
## Original Color

34.9416, 46.7243, 49.2966



## Protanomaly

39.5025, 45.5700, 45.7436



## Deuteranomaly

41.2103, 45.4187, 50.3107



## Tritanomaly

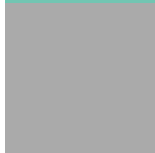
36.9776, 46.5367, 59.8569

# Monochromacy



## Original Color

34.9416, 46.7243, 49.2966



## Achromatopsia

38.2080, 40.1978, 43.7754



## Achromatomaly

36.4418, 42.1437, 45.7490

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 34.9416, 46.7243, 49.2966 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(114, 197, 178)` looks like.

```
.text, #text, p{  
    color:rgb(114, 197, 178)  
}
```

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(114, 197, 178) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(114, 197, 178) }
```

## Border

The CSS property to change the border of an element to XYZ 34.9416, 46.7243, 49.2966 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(114, 197, 178) }
```



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

```
.border{ border-color:rgb(114, 197, 178) }
```

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

Here you see how a box with a 4 pixel `rgb(114, 197, 178)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(114, 197, 178); -webkit-box-  
shadow:4px 4px 4px 4px rgb(114, 197, 178);  
box-shadow:4px 4px 4px 4px rgb(114, 197,  
178) }
```

# Background

The CSS property to change the background color of an element to XYZ 34.9416, 46.7243, 49.2966 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(114, 197, 178) }
```

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

```
.background{ background-color: rgb(114,  
197, 178) }
```

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