

# Converting Colors

XYZ(34.1053, 48.9876, 33.0629)

Have a look what the booklet for  
XYZ(34.1053, 48.9876, 33.0629)  
contains.

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# Color

**XYZ(34.2211, 49.1318,  
33.2709)**

# Conversions

## Conversions Part 1

Format	Color
Hex	78CC8E
RGB	120, 204, 142
RGB Percent	47%, 80%, 56%
CMY	0.5294, 0.2000, 0.4431
CMYK	0.41, 0.00, 0.30, 0.20
HSL	136°, 45%, 64%
HSV	136°, 41%, 80%
XYZ	34.2211, 49.1318, 33.2709
YIQ	171.8160, -30.1620, -37.0900

# Conversions

## Conversions Part 2

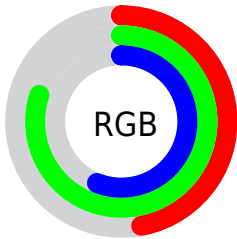
Format	Color
<a href="#">RYB</a>	<a href="#">120, 187, 204</a>
Decimal	<a href="#">7916686</a>
CIELab	<a href="#">75.53, -38.84, 23.11</a>
CIElCh	<a href="#">76, 45.190, 149.248</a>
Yxy	<a href="#">49.1318, 0.2934, 0.4213</a>
Android (android.graphics.Color)	<a href="#">4286106766 (0xFF78CC8E)</a>
YUV	<a href="#">171.8160, -14.6993, -45.4426</a>
Hunter-Lab	<a href="#">70.0941, -35.5180, 20.9232</a>

# Details

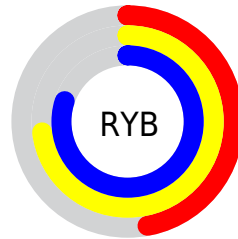
The XYZ color **34.2211, 49.1318, 33.2709** is a light color, and the websafe version is hex **66CC99**. A complement of this color would be **40.0635, 29.6488, 47.8692**, and the grayscale version is **39.2036, 41.2452, 44.9160**.

A 20% lighter version of the original color is **63.4030, 84.6195, 65.2161**, and **14.8157, 23.3740, 13.6283** is the 20% darker color. If you saturate the color by 10%, you get **30.6325, 47.4051, 27.5953**, and if you desaturate by 10%, it is **38.5678, 51.2344, 39.7814**.

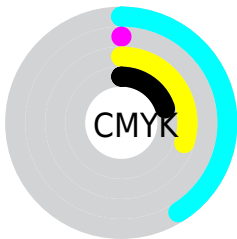
# Distribution



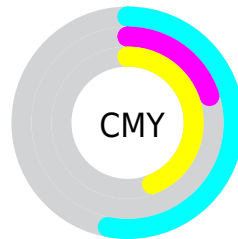
- Red (47%)
- Green (80%)
- Blue (56%)



- Red (47%)
- Yellow (73%)
- Blue (80%)



- Cyan (41%)
- Magenta (0%)
- Yellow (30%)
- Black (20%)




- Cyan (53%)
- Magenta (20%)
- Yellow (44%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 34.2211, 49.1318, 33.2709 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 34.2211, 49.1318, 33.2709 by changing the saturation by 10% instead.





 34.2211, 49.1318,  
33.2709


 34.2211, 49.1318,  
33.2709


312.6854,  
383.2610, 331.5380


 23.2272, 34.7240,  
22.0612


 65.6194, 88.8872,  
65.9191

 14.8830, 23.4504,  
13.7032


 86.7544, 115.0036,  
88.1948

 8.8231, 14.9264,  
7.7781


 112.0006,  
145.7917, 114.9961

 4.6821, 8.7678,  
3.8676

141.7232,  
181.6358, 146.7418

 2.0948, 4.5900,  
1.5530

176.2877,  
222.9204, 183.8503

 0.6864, 2.0088,  
0.2569

216.0593,

 0.0000, 0.6126,

270.0299, 226.7401

0.0000

261.4034,  
323.3486, 275.8298

■ 0.0000, 0.0000,  
0.0000

■ 34.2211, 49.1318,  
33.2709

■ 34.2211, 49.1318,  
33.2709

■ 30.6325, 47.4051,  
27.5953

■ 38.5678, 51.2344,  
39.7814

■ 27.7533, 46.0258,  
22.7174

■ 43.7096, 53.7272,  
47.1553

■ 25.5353, 44.9712,  
18.6021


■ 49.6858, 56.6312,  
55.4239


■ 23.9223, 44.2130,  
15.2103


■ 56.5318, 59.9641,  
64.6159


■ 22.8478, 43.7180,  
12.4996

■ 64.2812, 63.7426,  
74.7588

 22.2463, 43.4486,  
10.6340

 72.9654, 67.9823,  
85.8788

 79.6848, 71.1880,  
97.8641

 80.8838, 71.6676,  
104.1779

# Harmonies

## Analogous

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



39.2887, 49.1318, 22.5831



34.2211, 49.1318, 33.2709



32.4208, 49.1318, 52.8956

# Triad

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



34.2211, 49.1318, 33.2709



46.4881, 49.1318, 113.8603



62.1446, 49.1318, 34.0374

# Complementary

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



34.2211, 49.1318, 33.2709



40.0635, 29.6488, 47.8692

# 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.



64.6510, 49.1318, 54.1012



34.2211, 49.1318, 33.2709



54.9854, 49.1318, 104.4447

# Square

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



34.2211, 49.1318, 33.2709



38.9647, 49.1318, 103.5059



61.8903, 49.1318, 80.6023



55.3929, 49.1318, 22.9240



# Rectangle

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



34.2211, 49.1318, 33.2709



33.1281, 49.1318, 70.1212



61.8903, 49.1318, 80.6023



63.5448, 49.1318, 39.7314

# Sweetspot

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



34.2224, 49.1338, 33.2720



81.2490, 93.2810, 90.3755



44.5133, 54.6114, 25.9648



17.0968, 19.8231, 18.9419



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.



34.2224, 49.1338, 33.2720



51.5643, 78.9060, 47.0572



37.8873, 50.5998, 52.5714



11.1867, 12.5844, 12.5404



14.0344, 27.3591, 6.8663



0.7560, 1.4242, 0.5227



# Inverse Universe

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



40.0635, 29.6488, 47.8692



62.4511, 42.5273, 74.2180



36.4275, 28.1944, 28.7223



11.5572, 11.3516, 13.4689



19.2075, 9.4936, 19.3431



1.0210, 0.5018, 1.1563



# Previews

## White Background



This preview shows how the XYZ color 34.2211, 49.1318, 33.2709 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 34.2211, 49.1318, 33.2709 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

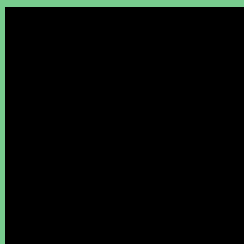
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

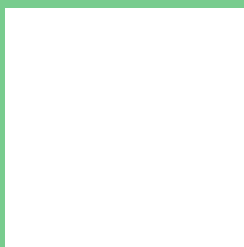
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 34.2211, 49.1318, 33.2709**

## **Background**



This preview shows how black text looks on a background with the XYZ color 34.2211, 49.1318, 33.2709.



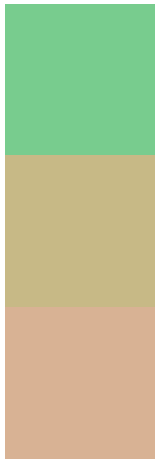
This preview shows how white text looks on a background with the XYZ color 34.2211, 49.1318,



# 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

34.2211, 49.1318, 33.2709

### Protanopia

45.2052, 48.5613, 29.5449

### Deuteranopia

49.5846, 48.5778, 34.7800



## Tritanopia

41.2647, 48.8843, 68.8887

# Trichromacy



## Original Color

34.2211, 49.1318, 33.2709



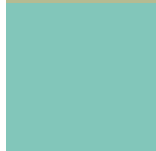
## Protanomaly

39.9426, 48.0515, 30.8366



## Deuteranomaly

42.0147, 47.4397, 34.1365



## Tritanomaly

38.2629, 48.6792, 53.8337

# Monochromacy



## Original Color

34.2211, 49.1318, 33.2709



## Achromatopsia

39.2122, 41.2543, 44.9259



## Achromatomaly

36.7104, 43.6265, 40.2041

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 34.2211, 49.1318, 33.2709 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(120, 204, 142)` looks like.

```
.text, #text, p{  
    color:rgb(120, 204, 142)  
}
```

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(120, 204, 142) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 204, 142) }
```

## Border

The CSS property to change the border of an element to XYZ 34.2211, 49.1318, 33.2709 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(120, 204, 142) }
```



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

```
.border{ border-color:rgb(120, 204, 142) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 204, 142)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 204, 142); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 204, 142);  
box-shadow:4px 4px 4px 4px rgb(120, 204,  
142) }
```

# Background

The CSS property to change the background color of an element to XYZ 34.2211, 49.1318, 33.2709 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 204, 142) }
```

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

```
.background{ background-color: rgb(120,  
204, 142) }
```

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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