

# Converting Colors

XYZ(31.8328, 45.1429, 28.7670)

Have a look what the booklet for  
XYZ(31.8328, 45.1429, 28.7670)  
contains.

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# Color

**XYZ(31.9308, 45.2834,  
28.8874)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7AC484
RGB	122, 196, 132
RGB Percent	48%, 77%, 52%
CMY	0.5216, 0.2314, 0.4823
CMYK	0.38, 0.00, 0.33, 0.23
HSL	128°, 39%, 62%
HSV	128°, 38%, 77%
XYZ	31.9308, 45.2834, 28.8874
YIQ	166.5780, -23.5600, -35.5920

# Conversions

## Conversions Part 2

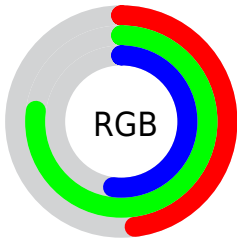
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	122, 187, 196
Decimal	8045700
CIE <sub>Lab</sub>	73.08, -36.37, 25.07
CIE <sub>LCh</sub>	73, 44.176, 145.423
Yxy	45.2834, 0.3009, 0.4268
Android (android.graphics.Color)	4286235780 (0xFF7AC484)
YUV	166.5780, -17.0470, -39.0949
Hunter-Lab	67.2929, -33.0636, 21.6531

# Details

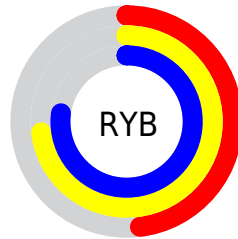
The XYZ color **31.9308, 45.2834, 28.8874** is a light color, and the websafe version is hex **66CC99**. A complement of this color would be **38.5889, 29.2009, 50.0585**, and the grayscale version is **36.6147, 38.5215, 41.9500**.

A 20% lighter version of the original color is **62.0137, 83.1005, 58.6705**, and **13.6502, 21.2204, 11.3591** is the 20% darker color. If you saturate the color by 10%, you get **28.3632, 43.5689, 23.1496**, and if you desaturate by 10%, it is **36.2489, 47.3657, 35.6462**.

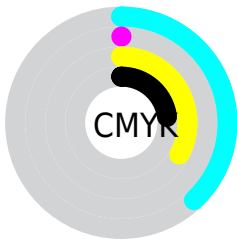
# Distribution



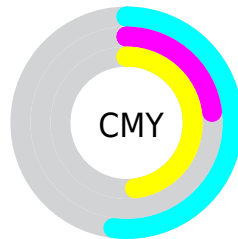
- Red (48%)
- Green (77%)
- Blue (52%)



- Red (48%)
- Yellow (73%)
- Blue (77%)



- Cyan (38%)
- Magenta (0%)
- Yellow (33%)
- Black (23%)



- Cyan (52%)
- Magenta (23%)
- Yellow (48%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.9308, 45.2834, 28.8874 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 31.9308, 45.2834, 28.8874 by changing the saturation by 10% instead.



■ 31.9308, 45.2834,  
28.8874

■ 31.9308, 45.2834,  
28.8874

302.5548,  
367.9201, 310.7276

■ 21.4639, 31.6807,  
18.7508

■ 62.0685, 83.1455,  
58.9382

■ 13.5779, 21.1177,  
11.3154

■ 82.4701, 108.1737,  
79.6895

■ 7.9074, 13.2101,  
6.1625

■ 106.9139,  
137.7793, 104.8161

■ 4.0871, 7.5734,  
2.8738

135.7654,  
172.3465, 134.7365

■ 1.7515, 3.8232,  
1.0306

169.3899,  
212.2598, 169.8693

■ 0.4882, 1.5752,  
0.0000

208.1527,

■ 0.0000, 0.3408,

257.9035, 210.6331

0.0000

252.4192,  
309.6622, 257.4463

■ 0.0000, 0.0000,  
0.0000

■ 31.9308, 45.2834,  
28.8874

■ 31.9308, 45.2834,  
28.8874

■ 28.3632, 43.5689,  
23.1496

■ 36.2489, 47.3657,  
35.6462

■ 25.4998, 42.1953,  
18.3803

■ 41.3537, 49.8294,  
43.4691

■ 23.2942, 41.1413,  
14.5269


■ 47.2828, 52.6944,  
52.4004


■ 21.6934, 40.3807,  
11.5306


■ 54.0708, 55.9777,  
62.4809


■ 20.6355, 39.8831,  
9.3258


■ 61.7500, 59.6950,  
73.7495

 20.0340, 39.6053,  
7.8367

 70.3512, 63.8615,  
86.2430

 19.9328, 39.5585,  
7.5911

 78.3403, 67.6854,  
99.9238

 79.0308, 67.9617,  
103.5603

# Harmonies

## Analogous

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



36.9727, 45.2834, 19.9977



31.9308, 45.2834, 28.8874



29.8654, 45.2834, 45.9882

# Triad

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



31.9308, 45.2834, 28.8874



41.8659, 45.2834, 105.0385



57.9003, 45.2834, 33.2034

# Complementary

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



31.9308, 45.2834, 28.8874



38.5889, 29.2009, 50.0585

# 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.



59.6123, 45.2834, 52.7795



31.9308, 45.2834, 28.8874



49.7384, 45.2834, 98.5789

# Square

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



31.9308, 45.2834, 28.8874



35.1481, 45.2834, 93.2884



56.4677, 45.2834, 77.6073



52.0339, 45.2834, 21.9162

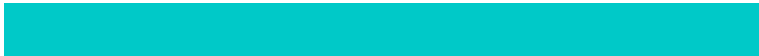


# Rectangle

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



31.9308, 45.2834, 28.8874



30.2492, 45.2834, 61.5085



56.4677, 45.2834, 77.6073



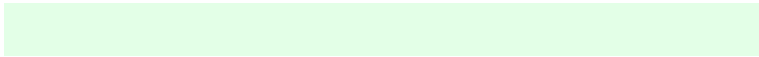
59.0085, 45.2834, 38.8344

# Sweetspot

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



31.9320, 45.2853, 28.8884



81.8100, 93.5976, 89.1638



43.5367, 51.3431, 26.0282



17.1902, 19.8788, 18.6025



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.



31.9320, 45.2853, 28.8884



52.5976, 79.5093, 43.9197



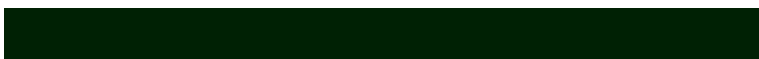
34.9162, 46.4790, 44.6030



9.9986, 11.2805, 10.9961



12.8258, 25.4244, 4.9759



0.5726, 1.1059, 0.3119



# Inverse Universe

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



38.5889, 29.2009, 50.0585



66.3075, 46.3504, 87.4949



35.1613, 27.8298, 32.0089



10.4368, 10.2233, 12.3909



19.2833, 9.4031, 25.2014



0.8497, 0.4129, 1.1760



# Previews

## White Background



This preview shows how the XYZ color 31.9308, 45.2834, 28.8874 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 31.9308, 45.2834, 28.8874 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 31.9308, 45.2834, 28.8874**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.9308, 45.2834, 28.8874.



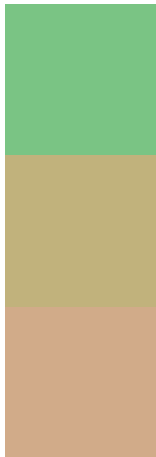
This preview shows how white text looks on a background with the XYZ color 31.9308, 45.2834,



# 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

31.9308, 45.2834, 28.8874

### Protanopia

41.5508, 44.6335, 25.4939

### Deuteranopia

45.3728, 44.4873, 29.8624



## Tritanopia

38.5843, 45.0392, 62.5369

# Trichromacy



## Original Color

31.9308, 45.2834, 28.8874



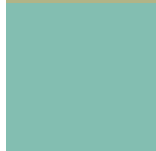
## Protanomaly

37.1161, 44.4457, 26.7013



## Deuteranomaly

38.8259, 43.7389, 29.3178



## Tritanomaly

35.7093, 44.8265, 48.3653

# Monochromacy



## Original Color

31.9308, 45.2834, 28.8874



## Achromatopsia

36.7301, 38.6429, 42.0822



## Achromatomaly

34.5156, 40.7532, 36.6188

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.9308, 45.2834, 28.8874 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(122, 196, 132)` looks like.

```
.text, #text, p{  
    color:rgb(122, 196, 132)  
}
```

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(122, 196, 132) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(122, 196, 132) }
```

## Border

The CSS property to change the border of an element to XYZ 31.9308, 45.2834, 28.8874 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(122, 196, 132) }
```



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

```
.border{ border-color:rgb(122, 196, 132) }
```

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

Here you see how a box with a 4 pixel `rgb(122, 196, 132)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(122, 196, 132); -webkit-box-shadow:4px 4px 4px 4px rgb(122, 196, 132); box-shadow:4px 4px 4px 4px rgb(122, 196, 132) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.9308, 45.2834, 28.8874 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(122, 196, 132) }
```

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

```
.background{ background-color: rgb(122,  
196, 132) }
```

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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