

# Converting Colors

XYZ(33.8375, 47.8417, 35.8128)

Have a look what the booklet for  
XYZ(33.8375, 47.8417, 35.8128)  
contains.

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# Color

**XYZ(33.7827, 47.7948,  
35.8785)**

# Conversions

## Conversions Part 1

Format	Color
Hex	76C995
RGB	118, 201, 149
RGB Percent	46%, 79%, 58%
CMY	0.5372, 0.2117, 0.4157
CMYK	0.41, 0.00, 0.26, 0.21
HSL	142°, 43%, 63%
HSV	142°, 41%, 79%
XYZ	33.7827, 47.7948, 35.8785
YIQ	170.2550, -32.7760, -33.7680

# Conversions

## Conversions Part 2

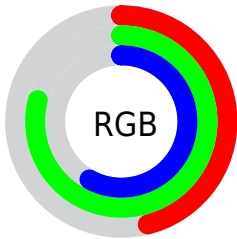
<b>Format</b>	<b>Color</b>
<b>RYB</b>	118, 178, 201
Decimal	7784853
CIELab	74.70, -36.75, 18.23
CIELCh	75, 41.023, 153.615
Yxy	47.7948, 0.2876, 0.4069
Android (android.graphics.Color)	4285974933 (0xFF76C995)
YUV	170.2550, -10.4787, -45.8276
Hunter-Lab	69.1338, -33.7589, 17.6238

# Details

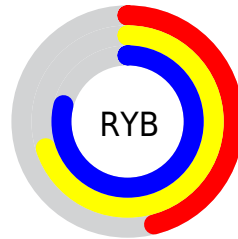
The XYZ color **33.7827, 47.7948, 35.8785** is a light color, and the websafe version is hex **66CC99**. A complement of this color would be **37.8232, 28.2778, 41.4969**, and the grayscale version is **38.3991, 40.3989, 43.9944**.

A 20% lighter version of the original color is **63.7731, 84.7160, 69.4905**, and **14.5978, 22.5296, 15.1345** is the 20% darker color. If you saturate the color by 10%, you get **30.3870, 46.1555, 30.7524**, and if you desaturate by 10%, it is **37.8713, 49.7814, 41.6067**.

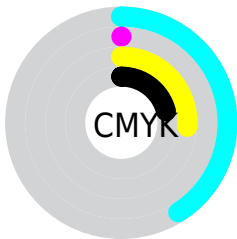
# Distribution



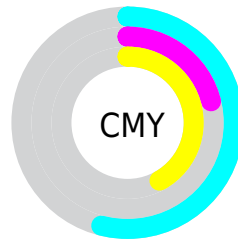
- Red (46%)
- Green (79%)
- Blue (58%)



- Red (46%)
- Yellow (70%)
- Blue (79%)



- Cyan (41%)
- Magenta (0%)
- Yellow (26%)
- Black (21%)




- Cyan (54%)
- Magenta (21%)
- Yellow (42%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.7827, 47.7948, 35.8785 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 33.7827, 47.7948, 35.8785 by changing the saturation by 10% instead.





 33.7827, 47.7948,  
35.8785


 33.7827, 47.7948,  
35.8785


310.7650,  
377.9782, 343.4505


 22.8888, 33.6644,  
24.0514

 64.9421, 86.8988,  
70.0114

 14.6317, 22.6359,  
15.1592


 85.9384, 112.6412,  
93.1544

 8.6459, 14.3249,  
8.7833


 111.0328,  
143.0231, 120.9063

 4.5662, 8.3470,  
4.5053

140.5908,  
178.4288, 153.6858

 2.0272, 4.3178,  
1.9064

174.9777,  
219.2428, 191.9115

 0.6492, 1.8529,  
0.4968

214.5587,

 0.0000, 0.5198,

265.8494, 236.0018

0.0000

259.6994,  
318.6331, 286.3753

■ 0.0000, 0.0000,  
0.0000

■ 33.7827, 47.7948,  
35.8785

■ 33.7827, 47.7948,  
35.8785

■ 30.3870, 46.1555,  
30.7524

■ 37.8713, 49.7814,  
41.6067

■ 27.6396, 44.8370,  
26.2052

■ 42.6863, 52.1281,  
47.9526

■ 25.4966, 43.8183,  
22.2171


■ 48.2635, 54.8545,  
54.9353

■ 23.9066, 43.0734,  
18.7655


■ 54.6351, 57.9767,  
62.5722


■ 22.8089, 42.5714,  
15.8266


■ 61.8315, 61.5102,  
70.8799

 22.1600, 42.2841,  
13.6632

 69.8815, 65.4693,  
79.8743

 77.4362, 69.1586,  
89.5067

 79.3433, 69.9214,  
99.5494

 80.1776, 70.2551,  
103.9425

# Harmonies

## Analogous

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



37.9613, 47.7948, 24.8411



33.7827, 47.7948, 35.8785



32.5974, 47.7948, 54.6659

# Triad

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



33.7827, 47.7948, 35.8785



46.3353, 47.7948, 104.5528



58.4083, 47.7948, 32.4996

# Complementary

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



33.7827, 47.7948, 35.8785



37.8232, 28.2778, 41.4969

# 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.



61.2472, 47.7948, 49.5003



33.7827, 47.7948, 35.8785



53.8137, 47.7948, 94.1433

# Square

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



33.7827, 47.7948, 35.8785



39.3639, 47.7948, 98.0299



59.4811, 47.7948, 72.4464



52.0839, 47.7948, 23.2969



# Rectangle

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



33.7827, 47.7948, 35.8785



33.5435, 47.7948, 70.2324



59.4811, 47.7948, 72.4464



59.8314, 47.7948, 37.2970

# Sweetspot

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



33.7840, 47.7968, 35.8796



81.7400, 93.4775, 92.9612



40.8587, 51.6929, 24.9644



17.2119, 19.8691, 19.5477



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.



33.7840, 47.7968, 35.8796



52.3366, 79.1703, 53.1418



37.6464, 49.3417, 56.2188



10.6586, 11.9523, 12.1522



13.9738, 26.6019, 8.8063



0.6966, 1.2736, 0.6013



# Inverse Universe

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



37.8232, 28.2778, 41.4969



60.2032, 41.0919, 64.0344



34.5341, 26.9622, 24.1769



10.9086, 10.7468, 12.5020



17.5558, 8.7719, 13.4027



0.8655, 0.4290, 0.8149



# Previews

## White Background



This preview shows how the XYZ color 33.7827, 47.7948, 35.8785 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 33.7827, 47.7948, 35.8785 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

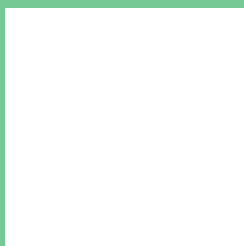
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 33.7827, 47.7948, 35.8785**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.7827, 47.7948, 35.8785.



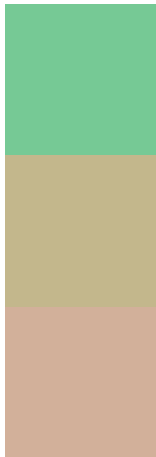
This preview shows how white text looks on a background with the XYZ color 33.7827, 47.7948,

35.8785.

# 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

33.7827, 47.7948, 35.8785

### Protanopia

44.1728, 47.3625, 31.6247

### Deuteranopia

47.9364, 47.0854, 37.1337



## **Tritanopia**

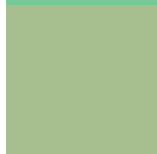
40.0943, 47.6489, 67.4056

# Trichromacy



## Original Color

33.7827, 47.7948, 35.8785



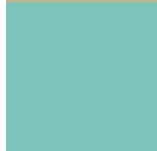
## Protanomaly

39.3077, 47.0256, 32.9917



## Deuteranomaly

41.1479, 46.3120, 36.4762



## Tritanomaly

37.4620, 47.5797, 54.2231

# Monochromacy



## Original Color

33.7827, 47.7948, 35.8785



## Achromatopsia

38.2080, 40.1978, 43.7754



## Achromatomaly

35.8080, 42.2357, 40.4474

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.7827, 47.7948, 35.8785 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(118, 201, 149)` looks like.

```
.text, #text, p{  
    color:rgb(118, 201, 149)  
}
```

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(118, 201, 149) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(118, 201, 149) }
```

## Border

The CSS property to change the border of an element to XYZ 33.7827, 47.7948, 35.8785 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(118, 201, 149) }
```



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

```
.border{ border-color:rgb(118, 201, 149) }
```

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

Here you see how a box with a 4 pixel `rgb(118, 201, 149)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(118, 201, 149); -webkit-box-shadow:4px 4px 4px 4px rgb(118, 201, 149); box-shadow:4px 4px 4px 4px rgb(118, 201, 149) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.7827, 47.7948, 35.8785 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(118, 201, 149) }
```

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

```
.background{ background-color: rgb(118,  
201, 149) }
```

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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