

# Converting Colors

XYZ(33.3837, 41.4177, 51.3643)

Have a look what the booklet for  
XYZ(33.3837, 41.4177, 51.3643)  
contains.

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# Color

**XYZ(33.3309, 41.3207,  
51.5664)**

# Conversions

## Conversions Part 1

Format	Color
Hex	78B7B8
RGB	120, 183, 184
RGB Percent	47%, 72%, 72%
CMY	0.5294, 0.2823, 0.2784
CMYK	0.35, 0.01, 0.00, 0.28
HSL	181°, 31%, 60%
HSV	181°, 35%, 72%
XYZ	33.3309, 41.3207, 51.5664
YIQ	164.2770, -37.8690, -13.0450

# Conversions

## Conversions Part 2

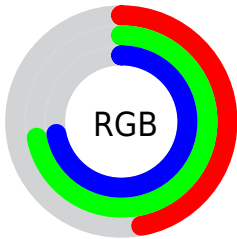
Format	Color
R <sub>Y</sub> B	120, 152, 184
Decimal	7911352
CIE Lab	70.40, -19.82, -6.93
CIE LCh	70, 20.998, 199.269
Yxy	41.3207, 0.2641, 0.3274
Android (android.graphics.Color)	4286101432 (0xFF78B7B8)
YUV	164.2770, 9.7234, -38.8309
Hunter-Lab	64.2812, -19.9367, -2.5656

# Details

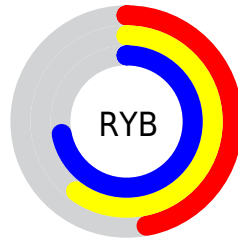
The XYZ color **33.3309, 41.3207, 51.5664** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **29.9952, 25.2215, 21.0574**, and the grayscale version is **35.3875, 37.2304, 40.5439**.

A 20% lighter version of the original color is **64.2739, 77.1382, 93.9397**, and **14.3941, 18.7972, 24.3423** is the 20% darker color. If you saturate the color by 10%, you get **30.9614, 40.0124, 51.4395**, and if you desaturate by 10%, it is **36.1933, 42.8853, 51.7182**.

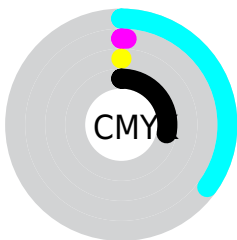
# Distribution



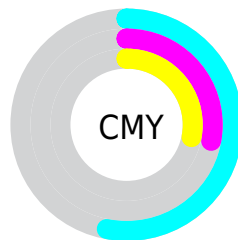
- Red (47%)
- Green (72%)
- Blue (72%)



- Red (47%)
- Yellow (60%)
- Blue (72%)



- Cyan (35%)
- Magenta (1%)
- Yellow (0%)
- Black (28%)



- Cyan (53%)
- Magenta (28%)
- Yellow (28%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.3309, 41.3207, 51.5664 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 33.3309, 41.3207, 51.5664 by changing the saturation by 10% instead.



■ 33.3309, 41.3207,  
51.5664

■ 33.3309, 41.3207,  
51.5664

308.7768,  
351.6592, 409.6696

■ 22.5405, 28.5698,  
36.2797

■ 64.2430, 77.1705,  
93.9115

■ 14.3734, 18.7556,  
24.3589

■ 85.0955, 101.0381,  
121.8070

■ 8.4643, 11.4938,  
15.3854

■ 110.0326,  
129.3801, 154.7426

■ 4.4477, 6.4000,  
8.9407

139.4199,  
162.5809, 193.1367

■ 1.9584, 3.0898,  
4.6062

173.6226,  
201.0247, 237.4079

■ 0.6104, 1.1788,  
1.9635

213.0061,

■ 0.0000, 0.0443,

245.0962, 287.9748

0.5327

257.9357,  
295.1795, 345.2558

■ 0.0000, 0.0000,  
0.0000

■ 33.3309, 41.3207,  
51.5664

■ 33.3309, 41.3207,  
51.5664

■ 30.9614, 40.0124,  
51.4395

■ 36.1933, 42.8853,  
51.7182

■ 29.0531, 38.9410,  
51.3332

■ 39.5708, 44.7146,  
51.8933

■ 27.5759, 38.0921,  
51.2472

■ 43.4889, 46.8228,  
52.0937

■ 26.4952, 37.4477,  
51.1798

■ 47.9701, 49.2214,  
52.3205

■ 25.7705, 36.9871,  
51.1291

■ 53.0358, 51.9215,  
52.5747

■ 25.3533, 36.6851,  
51.0928

■ 58.7061, 54.9335,  
52.8572

■ 25.2026, 36.5622,  
51.0770

■ 65.0002, 58.2673,  
53.1690

■ 67.3034, 59.5438,  
53.2940

■ 67.3636, 59.6643,  
53.3140

# Harmonies

## Analogous

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



33.1020, 41.3207, 41.5409



33.3309, 41.3207, 51.5664



35.0969, 41.3207, 61.0034

# Triad

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



33.3309, 41.3207, 51.5664



44.5263, 41.3207, 58.5824



40.5240, 41.3207, 28.7676

# Complementary

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



33.3309, 41.3207, 51.5664



29.9952, 25.2215, 21.0574

# 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.



43.7702, 41.3207, 32.0591



33.3309, 41.3207, 51.5664



46.1694, 41.3207, 48.6275

# Square

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



33.3309, 41.3207, 51.5664



41.5074, 41.3207, 65.4467



45.8848, 41.3207, 39.0002



37.1223, 41.3207, 29.3152



# Rectangle

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



33.3309, 41.3207, 51.5664



36.9692, 41.3207, 65.2339



45.8848, 41.3207, 39.0002



41.6729, 41.3207, 29.4401

# Sweetspot

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



33.3321, 41.3223, 51.5674



74.8849, 82.7555, 94.2312



28.2772, 39.6309, 23.9293



15.9334, 17.7272, 20.3035



88.6918, 93.3107, 101.6153



17.8044, 18.7317, 20.3988



# Same Dimension

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



33.3321, 41.3223, 51.5674



56.9479, 72.9895, 93.2915



27.6265, 29.9111, 49.6655



9.2544, 10.1859, 11.5578



17.3743, 25.2083, 35.2030



0.6163, 0.8963, 1.2423



# Inverse Universe

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



35.0318, 27.0431, 48.1750



60.5215, 43.1263, 86.1235



34.3864, 34.0037, 22.5211



9.3747, 9.1603, 11.3207



19.3834, 9.3271, 30.9695

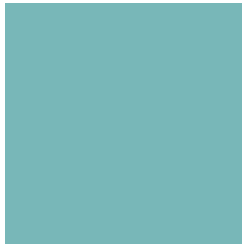


0.6853, 0.3296, 1.1020



# Previews

## White Background



This preview shows how the XYZ color 33.3309, 41.3207, 51.5664 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

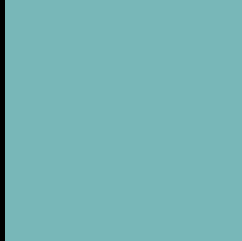
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 33.3309, 41.3207, 51.5664 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

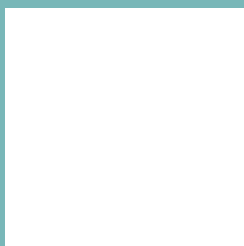
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 33.3309, 41.3207, 51.5664

## Background



This preview shows how black text looks on a background with the XYZ color 33.3309, 41.3207, 51.5664.



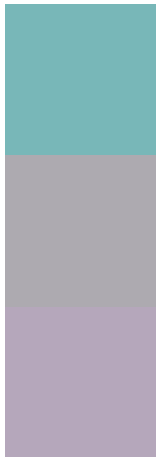
This preview shows how white text looks on a background with the XYZ color 33.3309, 41.3207,



# 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

33.3309, 41.3207, 51.5664

### Protanopia

39.4448, 40.7683, 46.8644

### Deuteranopia

41.8444, 41.0490, 52.7315



## Tritanopia

34.6561, 41.2442, 58.3589

# Trichromacy



## Original Color

33.3309, 41.3207, 51.5664

## Protanomaly

36.7931, 40.7846, 48.5808

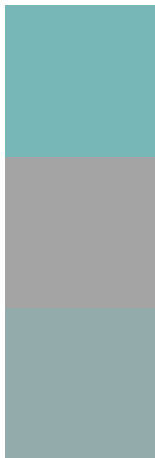
## Deuteranomaly

38.1046, 40.8032, 52.3219

## Tritanomaly

34.2684, 41.3992, 56.0539

# Monochromacy



## Original Color

33.3309, 41.3207, 51.5664

## Achromatopsia

35.2861, 37.1238, 40.4278

## Achromatomaly

34.1263, 38.3620, 44.1340

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.3309, 41.3207, 51.5664 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, 183, 184)` looks like.

```
.text, #text, p{  
    color:rgb(120, 183, 184)  
}
```

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, 183, 184) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 183, 184) }
```

## Border

The CSS property to change the border of an element to XYZ 33.3309, 41.3207, 51.5664 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, 183, 184) }
```



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

```
.border{ border-color:rgb(120, 183, 184) }
```

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

Here you see how a box with a 4 pixel rgb(120, 183, 184) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 183, 184); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 183, 184);  
box-shadow:4px 4px 4px 4px rgb(120, 183,  
184) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.3309, 41.3207, 51.5664 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 183, 184) }
```

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

```
.background{ background-color: rgb(120,  
183, 184) }
```

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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