

# Converting Colors

XYZ(39.8413, 49.8614, 61.9241)

Have a look what the booklet for  
XYZ(39.8413, 49.8614, 61.9241)  
contains.

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# Color

**XYZ(39.9817, 50.0679,  
62.2004)**

# Conversions

## Conversions Part 1

Format	Color
Hex	80C8C8
RGB	128, 200, 200
RGB Percent	50%, 78%, 78%
CMY	0.4980, 0.2157, 0.2157
CMYK	0.36, 0.00, 0.00, 0.22
HSL	180°, 40%, 64%
HSV	180°, 36%, 78%
XYZ	39.9817, 50.0679, 62.2004
YIQ	178.4720, -42.9120, -15.2640

# Conversions

## Conversions Part 2

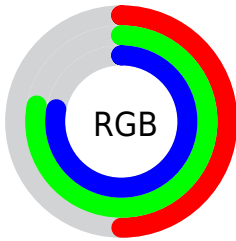
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	128, 164, 200
Decimal	8440008
CIE <sub>Lab</sub>	76.11, -22.39, -7.14
CIE <sub>LCh</sub>	76, 23.502, 197.678
Yxy	50.0679, 0.2626, 0.3289
Android (android.graphics.Color)	4286630088 (0xFF80C8C8)
YUV	178.4720, 10.6133, -44.2639
Hunter-Lab	70.7587, -22.9675, -2.5878

# Details

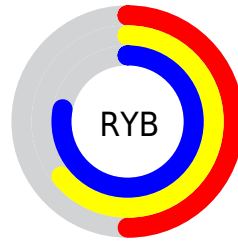
The XYZ color **39.9817, 50.0679, 62.2004** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **35.4366, 29.2777, 24.2074**, and the grayscale version is **42.5300, 44.7448, 48.7271**.

A 20% lighter version of the original color is **73.5772, 88.9303, 107.8951**, and **18.2912, 24.0889, 30.8797** is the 20% darker color. If you saturate the color by 10%, you get **37.2652, 48.6687, 62.0740**, and if you desaturate by 10%, it is **43.2941, 51.7767, 62.3569**.

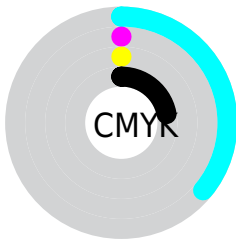
# Distribution



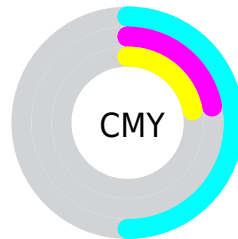
- Red (50%)
- Green (78%)
- Blue (78%)



- Red (50%)
- Yellow (64%)
- Blue (78%)



- Cyan (36%)
- Magenta (0%)
- Yellow (0%)
- Black (22%)




- Cyan (50%)
- Magenta (22%)
- Yellow (22%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 39.9817, 50.0679, 62.2004 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 39.9817, 50.0679, 62.2004 by changing the saturation by 10% instead.





 39.9817, 50.0679,  
62.2004


 39.9817, 50.0679,  
62.2004


337.1822,  
386.9314, 450.6895


 27.7084, 35.4674,  
44.7578


 74.4202, 90.2755,  
109.5895

 18.2453, 24.0231,  
30.9251


 97.3161, 116.6513,  
140.3731

 11.2270, 15.3508,  
20.2839


 124.4835,  
147.7210, 176.4408

 6.2882, 9.0659,  
12.4154

156.2880,  
183.8689, 218.2111

 3.0634, 4.7842,  
6.9013

193.0947,  
225.4796, 266.1026

 1.1874, 2.1212,  
3.3229

235.2691,

 0.0964, 0.6765,

272.9373, 320.5338

1.2618

283.1764,  
326.6264, 381.9233

■ 0.0000, 0.0000,  
0.0302

■ 0.0000, 0.0000,  
0.0000

■ 39.9817, 50.0679,  
62.2004

■ 39.9817, 50.0679,  
62.2004

■ 37.2652, 48.6687,  
62.0740

■ 43.2941, 51.7767,  
62.3569

■ 35.1052, 47.5552,  
61.9725

■ 47.2300, 53.8058,  
62.5415

■ 33.4644, 46.7094,  
61.8953

■ 51.8209, 56.1724,  
62.7567

■ 32.2993, 46.1087,  
61.8404

■ 57.0946, 58.8911,  
63.0039

■ 31.5592, 45.7272,  
61.8054

■ 63.0775, 61.9754,  
63.2843

■ 31.1803, 45.5319,  
61.7873

■ 69.7944, 65.4381,  
63.5990

■ 31.0801, 45.4803,  
61.7825

■ 72.3211, 66.7406,  
63.7176

■ 72.3212, 66.7407,  
63.7180

■ 72.3213, 66.7407,  
63.7184

# Harmonies

## Analogous

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



39.8000, 50.0679, 49.5118



39.9817, 50.0679, 62.2004



42.1218, 50.0679, 74.4400

# Triad

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



39.9817, 50.0679, 62.2004



54.1140, 50.0679, 72.4889



49.4144, 50.0679, 34.1238

# Complementary

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



39.9817, 50.0679, 62.2004



35.4366, 29.2777, 24.2074

# 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.



53.5079, 50.0679, 38.5070



39.9817, 50.0679, 62.2004



56.3311, 50.0679, 59.8453

# Square

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



39.9817, 50.0679, 62.2004



50.2008, 50.0679, 80.9799



56.1026, 50.0679, 47.4911



45.0676, 50.0679, 34.5540



# Rectangle

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



39.9817, 50.0679, 62.2004



44.4499, 50.0679, 80.1098



56.1026, 50.0679, 47.4911



50.8705, 50.0679, 35.0513

# Sweetspot

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



39.9832, 50.0699, 62.2016



85.4726, 95.0627, 108.4510



33.6358, 47.5519, 27.8288



18.0636, 20.2282, 23.2022



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.



39.9832, 50.0699, 62.2016



65.5483, 84.7914, 107.5165



32.8202, 35.7435, 59.8152



10.9467, 12.0676, 13.6697



19.7611, 28.9168, 39.2819



0.9357, 1.3692, 1.8600



# Inverse Universe

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



35.4366, 29.2777, 24.2074



56.5571, 43.6732, 32.3801



40.7792, 39.9631, 25.9875



10.6339, 10.6370, 11.0555



15.1453, 7.8077, 0.7089

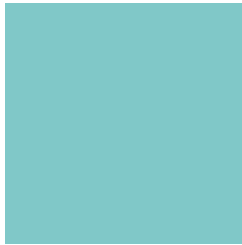


0.7171, 0.3697, 0.0336



# Previews

## White Background



This preview shows how the XYZ color 39.9817, 50.0679, 62.2004 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

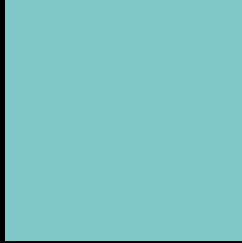
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 39.9817, 50.0679, 62.2004 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

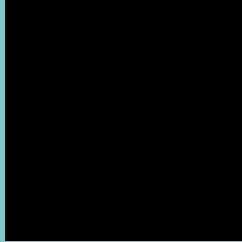
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 39.9817, 50.0679, 62.2004

## Background



This preview shows how black text looks on a background with the XYZ color 39.9817, 50.0679, 62.2004.



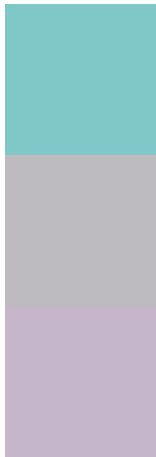
This preview shows how white text looks on a background with the XYZ color 39.9817, 50.0679,



# 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

39.9817, 50.0679, 62.2004

### Protanopia

48.0596, 49.7424, 56.9374

### Deuteranopia

50.6530, 49.6858, 64.0474



## Tritanopia

41.8474, 50.1487, 71.0924

# Trichromacy



## Original Color

39.9817, 50.0679, 62.2004

## Protanomaly

44.4175, 49.4172, 58.8272

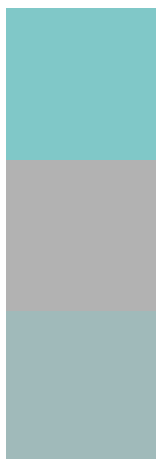
## Deuteranomaly

45.9903, 49.4776, 63.6261

## Tritanomaly

41.2921, 50.2756, 67.8494

# Monochromacy



## Original Color

39.9817, 50.0679, 62.2004

## Achromatopsia

42.3164, 44.5201, 48.4824

## Achromatomaly

40.9190, 46.1366, 53.2030

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 39.9817, 50.0679, 62.2004 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(128, 200, 200)` looks like.

```
.text, #text, p{  
    color:rgb(128, 200, 200)  
}
```

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(128, 200, 200) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 200, 200) }
```

## Border

The CSS property to change the border of an element to XYZ 39.9817, 50.0679, 62.2004 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(128, 200, 200) }
```



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

```
.border{ border-color:rgb(128, 200, 200) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 200, 200)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 200, 200); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 200, 200);  
box-shadow:4px 4px 4px 4px rgb(128, 200,  
200) }
```

# Background

The CSS property to change the background color of an element to XYZ 39.9817, 50.0679, 62.2004 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 200, 200) }
```

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

```
.background{ background-color: rgb(128,  
200, 200) }
```

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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