

# Converting Colors

XYZ(49.9303, 63.0427, 63.8960)

Have a look what the booklet for  
XYZ(49.9303, 63.0427, 63.8960)  
contains.

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# Color

**XYZ(49.9921, 62.9510,  
64.1595)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9CDDC8
RGB	156, 221, 200
RGB Percent	61%, 87%, 78%
CMY	0.3882, 0.1333, 0.2157
CMYK	0.29, 0.00, 0.10, 0.13
HSL	161°, 49%, 74%
HSV	161°, 29%, 87%
XYZ	49.9921, 62.9510, 64.1595
YIQ	199.1710, -31.9990, -20.3110

# Conversions

## Conversions Part 2

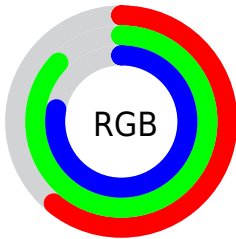
Format	Color
R <sub>YB</sub>	156, 195, 221
Decimal	10280392
CIE Lab	83.42, -24.91, 3.73
CIE LCh	83, 25.192, 171.474
Yxy	62.9510, 0.2823, 0.3554
Android (android.graphics.Color)	4288470472 (0xFF9CDDC8)
YUV	199.1710, 0.4087, -37.8610
Hunter-Lab	79.3417, -26.3775, 7.5944

# Details

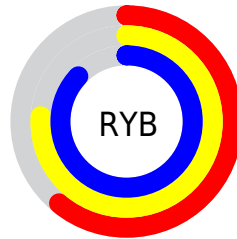
The XYZ color **49.9921, 62.9510, 64.1595** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **49.6453, 42.3250, 47.1505**, and the grayscale version is **54.4038, 57.2370, 62.3311**.

A 20% lighter version of the original color is **80.9614, 92.7370, 108.2407**, and **24.4180, 32.2313, 32.1284** is the 20% darker color. If you saturate the color by 10%, you get **45.2836, 60.6195, 59.6848**, and if you desaturate by 10%, it is **55.5212, 65.7043, 68.8788**.

# Distribution



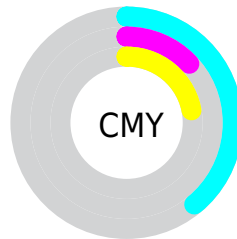
- Red (61%)
- Green (87%)
- Blue (78%)



- Red (61%)
- Yellow (76%)
- Blue (87%)



- Cyan (29%)
- Magenta (0%)
- Yellow (10%)
- Black (13%)




- Cyan (39%)
- Magenta (13%)
- Yellow (22%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.9921, 62.9510, 64.1595 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 49.9921, 62.9510, 64.1595 by changing the saturation by 10% instead.





 49.9921, 62.9510,  
64.1595


 49.9921, 62.9510,  
64.1595


377.0875,  
435.3916, 457.9887

 35.6249, 45.8016,  
46.3329


 89.3551, 109.0988,  
112.4423

 24.3134, 32.0893,  
32.1580


 115.0815,  
138.8660, 143.7355

 15.6923, 21.4297,  
21.2164

145.3251,  
173.6079, 180.3547

 9.3961, 13.4385,  
13.0895

180.4512,  
213.7088, 222.7184

 5.0596, 7.7312,  
7.3587

220.8251,  
259.5533, 271.2450

 2.3174, 3.9234,  
3.6056


266.8123,


 0.8035, 1.6308,


311.5257, 326.3533


1.4116


318.7780,  
370.0103, 388.4617

 0.0000, 0.3782,  
0.1507


 0.0000, 0.0000,  
0.0000


 49.9921, 62.9510,  
64.1595


 49.9921, 62.9510,  
64.1595


 45.2836, 60.6195,  
59.6848


 55.5212, 65.7043,  
68.8788


 41.3476, 58.6802,  
55.4457

 61.9051, 68.8921,  
73.8430

 38.1392, 57.1116,  
51.4385

 69.1826, 72.5359,  
79.0578

 35.6063, 55.8869,  
47.6581

 77.3884, 76.6535,  
84.5275

■ 33.6897, 54.9756,  
44.0988

■ 82.1952, 79.0143,  
90.0521

■ 32.3194, 54.3418,  
40.7541

■ 83.2521, 79.4370,  
95.6176

■ 31.3802, 53.9261,  
37.6158

■ 84.3510, 79.8766,  
101.4041

■ 31.3302, 53.9042,  
37.4373

■ 85.1476, 80.1952,  
105.5992

# Harmonies

## Analogous

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



51.9513, 62.9510, 51.3896



49.9921, 62.9510, 64.1595



50.5405, 62.9510, 80.2126

# Triad

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



49.9921, 62.9510, 64.1595



63.7799, 62.9510, 100.6884



66.6494, 62.9510, 47.5140

# Complementary

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



49.9921, 62.9510, 64.1595



49.6453, 42.3250, 47.1505

# 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.



70.2000, 62.9510, 58.0638



49.9921, 62.9510, 64.1595



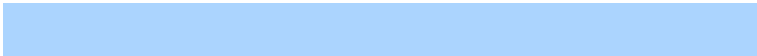
68.4741, 62.9510, 89.1427

# Square

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



49.9921, 62.9510, 64.1595



58.2822, 62.9510, 102.9852



70.8874, 62.9510, 73.1216



61.4111, 62.9510, 42.7889



# Rectangle

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



49.9921, 62.9510, 64.1595



52.2697, 62.9510, 90.5698



70.8874, 62.9510, 73.1216



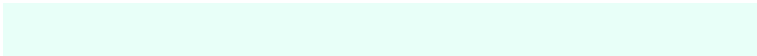
68.0929, 62.9510, 50.4126

# Sweetspot

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



49.9939, 62.9536, 64.1609



85.9338, 95.4357, 102.3612



50.1429, 63.5415, 41.0754



18.0986, 20.2798, 21.6890



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

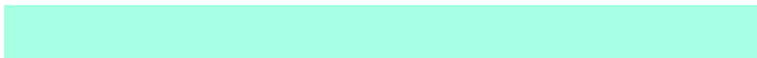


# Same Dimension

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



49.9939, 62.9536, 64.1609



65.1833, 85.0999, 85.0590



49.8512, 58.4664, 77.0674



13.2566, 14.7543, 15.8141



18.2533, 31.3339, 22.0309



1.2213, 2.0455, 1.6316



# Inverse Universe

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



49.6453, 42.3250, 47.1505



64.6345, 52.3631, 58.0860



49.6097, 45.3506, 37.5923



13.2286, 13.1205, 14.4650



18.0366, 9.2157, 4.5730

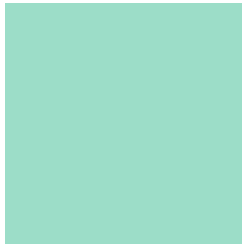


1.2072, 0.6125, 0.5002



# Previews

## White Background



This preview shows how the XYZ color 49.9921, 62.9510, 64.1595 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

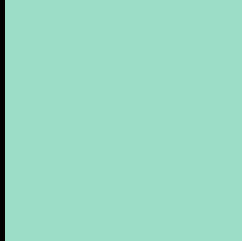
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.9921, 62.9510, 64.1595 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

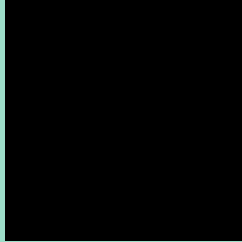
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

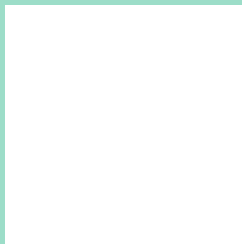
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 49.9921, 62.9510, 64.1595

## Background



This preview shows how black text looks on a background with the XYZ color 49.9921, 62.9510, 64.1595.



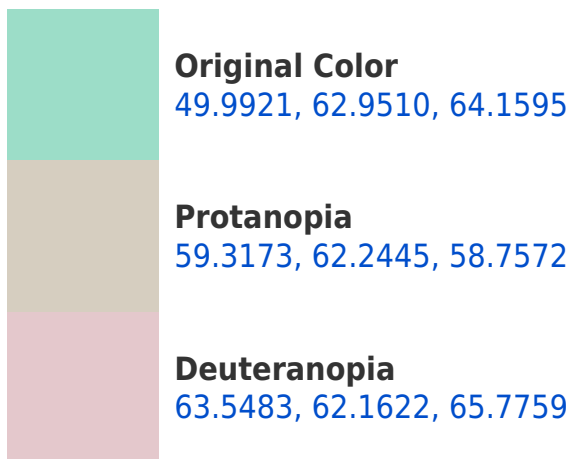
This preview shows how white text looks on a background with the XYZ color 49.9921, 62.9510,

64.1595.

# 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





## Tritanopia

54.3681, 62.7815, 86.3433

# Trichromacy



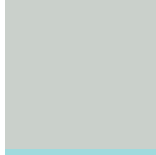
## Original Color

49.9921, 62.9510, 64.1595



## Protanomaly

55.1369, 61.8661, 60.6651



## Deuteranomaly

57.6925, 61.9801, 65.4225



## Tritanomaly

52.6198, 62.8368, 77.7620

# Monochromacy



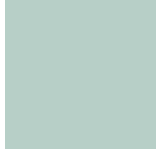
## Original Color

49.9921, 62.9510, 64.1595



## Achromatopsia

54.2854, 57.1125, 62.1955



## Achromatomaly

52.1501, 58.8164, 62.6369

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.9921, 62.9510, 64.1595 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(156, 221, 200)` looks like.

```
.text, #text, p{  
    color:rgb(156, 221, 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(156, 221, 200) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(156, 221, 200) }
```

## Border

The CSS property to change the border of an element to XYZ 49.9921, 62.9510, 64.1595 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(156, 221, 200) }
```



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

```
.border{ border-color:rgb(156, 221, 200) }
```

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

Here you see how a box with a 4 pixel `rgb(156, 221, 200)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(156, 221, 200); -webkit-box-shadow:4px 4px 4px 4px rgb(156, 221, 200); box-shadow:4px 4px 4px 4px rgb(156, 221, 200) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.9921, 62.9510, 64.1595 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(156, 221, 200) }
```

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

```
.background{ background-color: rgb(156,  
221, 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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