

# Converting Colors

XYZ(49.5317, 63.1111, 61.3353)

Have a look what the booklet for  
XYZ(49.5317, 63.1111, 61.3353)  
contains.

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# Color

**XYZ(49.4892, 63.1512,  
61.2108)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9BDEC3
RGB	155, 222, 195
RGB Percent	61%, 87%, 76%
CMY	0.3921, 0.1294, 0.2353
CMYK	0.30, 0.00, 0.12, 0.13
HSL	156°, 50%, 74%
HSV	156°, 30%, 87%
XYZ	49.4892, 63.1512, 61.2108
YIQ	198.8890, -31.2650, -22.6010

# Conversions

## Conversions Part 2

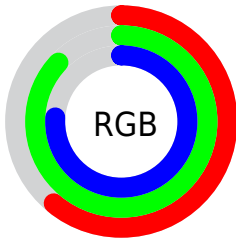
Format	Color
<a href="#">RYB</a>	<a href="#">155, 197, 222</a>
Decimal	<a href="#">10215107</a>
CIELab	<a href="#">83.52, -26.73, 6.53</a>
CIElCh	<a href="#">84, 27.511, 166.279</a>
Yxy	<a href="#">63.1512, 0.2847, 0.3632</a>
Android (android.graphics.Color)	<a href="#">4288405187</a> ( <a href="#">0xFF9BDEC3</a> )
YUV	<a href="#">198.8890, -1.9173, -38.4907</a>
Hunter-Lab	<a href="#">79.4677, -27.9061, 9.9587</a>

# Details

The XYZ color **49.4892, 63.1512, 61.2108** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **50.2913, 42.3514, 49.7827**, and the grayscale version is **54.2447, 57.0696, 62.1488**.

A 20% lighter version of the original color is **80.1947, 92.3972, 105.7032**, and **23.9933, 32.3272, 30.1745** is the 20% darker color. If you saturate the color by 10%, you get **44.6328, 60.7627, 55.8608**, and if you desaturate by 10%, it is **55.1930, 65.9729, 66.9196**.

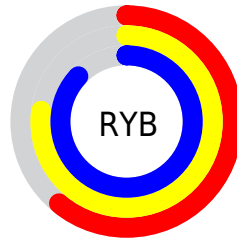
# Distribution



Red (61%)

Green (87%)

Blue (76%)



Red (61%)

Yellow (77%)

Blue (87%)

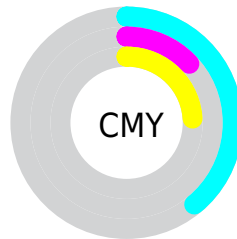


Cyan (30%)

Magenta (0%)

Yellow (12%)

Black (13%)



Cyan (39%)

Magenta (13%)


Yellow (24%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.4892, 63.1512, 61.2108 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 49.4892, 63.1512, 61.2108 by changing the saturation by 10% instead.




 49.4892, 63.1512,  
61.2108


 49.4892, 63.1512,  
61.2108


375.1501,  
436.1180, 446.9744

 35.2238, 45.9635,  
43.9637


 88.6139, 109.3876,  
108.1446

 24.0027, 32.2171,  
30.3049


 114.2040,  
139.2052, 138.6683

 15.4603, 21.5273,  
19.8162

144.2998,  
174.0015, 174.4547

 9.2315, 13.5100,  
12.0787

179.2665,  
214.1609, 215.9222

 4.9508, 7.7807,  
6.6741

219.4695,  
260.0679, 263.4893

 2.2529, 3.9549,  
3.1838

265.2742,

 0.7704, 1.6484,

312.1068, 317.5748

1.1892

317.0460,  
370.6620, 378.5969

■ 0.0000, 0.3899,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 49.4892, 63.1512,  
61.2108

■ 49.4892, 63.1512,  
61.2108

■ 44.6328, 60.7627,  
55.8608

■ 55.1930, 65.9729,  
66.9196

■ 40.5745, 58.7771,  
50.8579

■ 61.7798, 69.2409,  
72.9901

■ 37.2678, 57.1723,  
46.1954

■ 69.2891, 72.9774,  
79.4309

■ 34.6593, 55.9206,  
41.8652

■ 77.7568, 77.2005,  
86.2487

■ 32.6876, 54.9909,  
37.8583

■ 83.0515, 79.7804,  
93.2552

■ 31.2804, 54.3457,  
34.1653

■ 84.4120, 80.3246,  
100.4195

■ 30.3239, 53.9254,  
30.8322

■ 85.4124, 80.7248,  
105.6875

# Harmonies

## Analogous

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



52.0582, 63.1512, 48.3421



49.4892, 63.1512, 61.2108



49.6066, 63.1512, 78.4547

# Triad

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



49.4892, 63.1512, 61.2108



63.3190, 63.1512, 105.6443



68.3637, 63.1512, 47.5213

# Complementary

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



49.4892, 63.1512, 61.2108



50.2913, 42.3514, 49.7827

# 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.



71.8048, 63.1512, 59.9005



49.4892, 63.1512, 61.2108



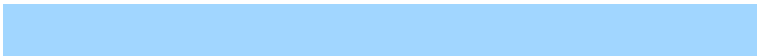
68.7621, 63.1512, 94.2456

# Square

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



49.4892, 63.1512, 61.2108



57.3256, 63.1512, 106.1539



71.9553, 63.1512, 76.9077



62.8043, 63.1512, 41.3763



# Rectangle

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



49.4892, 63.1512, 61.2108



51.1869, 63.1512, 90.2460



71.9553, 63.1512, 76.9077



69.8223, 63.1512, 50.9890

# Sweetspot

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



49.4910, 63.1538, 61.2122



85.6513, 95.3227, 100.8733



51.5484, 64.6689, 40.7769



18.0289, 20.2519, 21.3217



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.



49.4910, 63.1538, 61.2122



63.5606, 84.3898, 79.2709



51.3672, 61.5705, 78.2871



13.8705, 15.4739, 16.3534



18.0674, 32.0518, 18.6098



1.2963, 2.2392, 1.5214



# Inverse Universe

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



50.2913, 42.3514, 49.7827



64.8210, 51.7048, 61.3276



48.7147, 43.2422, 36.7905



13.9350, 13.7916, 15.4278



19.0276, 9.6781, 6.8113

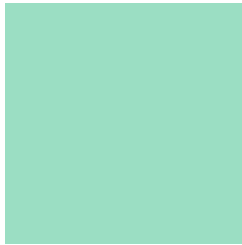


1.3623, 0.6882, 0.7009



# Previews

## White Background



This preview shows how the XYZ color 49.4892, 63.1512, 61.2108 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

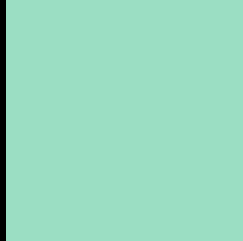
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.4892, 63.1512, 61.2108 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

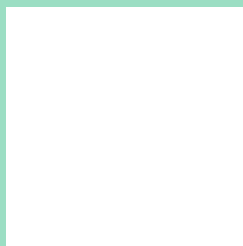
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 49.4892, 63.1512, 61.2108**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.4892, 63.1512, 61.2108.



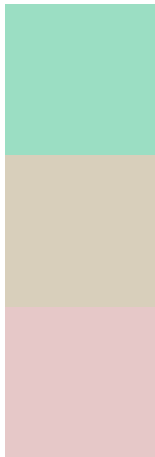
This preview shows how white text looks on a background with the XYZ color 49.4892, 63.1512,



# 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

49.4892, 63.1512, 61.2108

### Protanopia

59.6014, 62.8124, 55.9964

### Deuteranopia

63.7127, 62.3017, 63.3110



## Tritanopia

54.5114, 62.8388, 87.0979

# Trichromacy



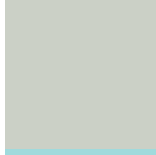
## Original Color

49.4892, 63.1512, 61.2108



## Protanomaly

55.0859, 62.2740, 57.8319



## Deuteranomaly

57.3775, 61.8855, 62.3471



## Tritanomaly

52.4869, 62.7837, 77.0623

# Monochromacy



## Original Color

49.4892, 63.1512, 61.2108



## Achromatopsia

54.2854, 57.1125, 62.1955



## Achromatomaly

52.0343, 58.7701, 62.0274

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.4892, 63.1512, 61.2108 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(155, 222, 195)` looks like.

```
.text, #text, p{  
    color:rgb(155, 222, 195)  
}
```

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(155, 222, 195) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(155, 222, 195) }
```

## Border

The CSS property to change the border of an element to XYZ 49.4892, 63.1512, 61.2108 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(155, 222, 195) }
```



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

```
.border{ border-color:rgb(155, 222, 195) }
```

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

Here you see how a box with a 4 pixel `rgb(155, 222, 195)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(155, 222, 195); -webkit-box-  
shadow:4px 4px 4px 4px rgb(155, 222, 195);  
box-shadow:4px 4px 4px 4px rgb(155, 222,  
195) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.4892, 63.1512, 61.2108 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(155, 222, 195) }
```

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

```
.background{ background-color: rgb(155,  
222, 195) }
```

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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