

# Converting Colors

XYZ(46.1262, 65.1904, 62.9253)

Have a look what the booklet for  
XYZ(46.1262, 65.1904, 62.9253)  
contains.

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# Color

**XYZ(45.9901, 64.9650,  
62.9389)**

# Conversions

## Conversions Part 1

Format	Color
Hex	75E7C5
RGB	117, 231, 197
RGB Percent	46%, 91%, 77%
CMY	0.5412, 0.0941, 0.2274
CMYK	0.49, 0.00, 0.15, 0.09
HSL	162°, 70%, 68%
HSV	162°, 49%, 91%
XYZ	45.9901, 64.9650, 62.9389
YIQ	193.0380, -57.0300, -34.7420

# Conversions

## Conversions Part 2

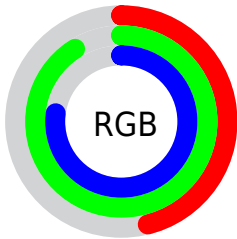
Format	Color
<a href="#">RYB</a>	<a href="#">117, 184, 231</a>
Decimal	<a href="#">7727045</a>
CIELab	<a href="#">84.47, -40.51, 6.61</a>
CIElCh	<a href="#">84, 41.043, 170.727</a>
Yxy	<a href="#">64.9650, 0.2645, 0.3736</a>
Android (android.graphics.Color)	<a href="#">4285917125 (0xFF75E7C5)</a>
YUV	<a href="#">193.0380, 1.9533, -66.6853</a>
Hunter-Lab	<a href="#">80.6009, -39.2011, 10.1228</a>

# Details

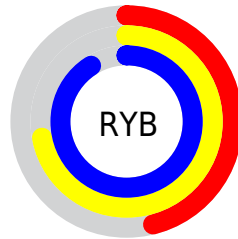
The XYZ color **45.9901, 64.9650, 62.9389** is a light color, and the websafe version is hex **99FFCC**. A complement of this color would be **44.9044, 31.9476, 33.0804**, and the grayscale version is **50.7254, 53.3670, 58.1167**.

A 20% lighter version of the original color is **71.3286, 87.7897, 106.9516**, and **21.8634, 33.4553, 31.2918** is the 20% darker color. If you saturate the color by 10%, you get **42.4897, 63.2513, 58.7486**, and if you desaturate by 10%, it is **50.2959, 67.0931, 67.3581**.

# Distribution



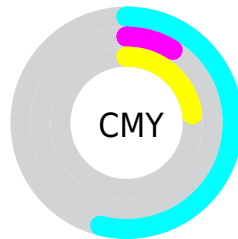
- Red (46%)
- Green (91%)
- Blue (77%)



- Red (46%)
- Yellow (72%)
- Blue (91%)



- Cyan (49%)
- Magenta (0%)
- Yellow (15%)
- Black (9%)




- Cyan (54%)
- Magenta (9%)
- Yellow (23%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.9901, 64.9650, 62.9389 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 45.9901, 64.9650, 62.9389 by changing the saturation by 10% instead.





 45.9901, 64.9650,  
62.9389

 45.9901, 64.9650,  
62.9389


361.4855,  
442.6662, 453.4496


 32.4426, 47.4327,  
45.3511


 83.4321, 111.9995,  
110.6661

 21.8570, 33.3779,  
31.3891

 108.0574,  
142.2706, 141.6425

 13.8679, 22.4161,  
20.6344


 137.1059,  
177.5566, 177.9190

 8.1099, 14.1629,  
12.6684

170.9431,  
218.2421, 219.9139

 4.2177, 8.2341,  
7.0726

209.9343,  
264.7114, 268.0459

 1.8260, 4.2451,  
3.4284

254.4448,

 0.5333, 1.8116,

317.3489, 322.7335

1.3173

304.8401,  
376.5391, 384.3952

■ 0.0000, 0.4944,  
0.0759

■ 0.0000, 0.0000,  
0.0000

■ 45.9901, 64.9650,  
62.9389

■ 45.9901, 64.9650,  
62.9389

■ 42.4897, 63.2513,  
58.7486

■ 50.2959, 67.0931,  
67.3581

■ 39.7315, 61.9144,  
54.7775


■ 55.4537, 69.6545,  
72.0067


■ 37.6513, 60.9230,  
51.0215


■ 61.5129, 72.6762,  
76.8906


■ 36.1712, 60.2370,  
47.4744


■ 68.5173, 76.1810,  
82.0144


 35.1666, 59.7921,  
44.1277


 76.5079, 80.1898,  
87.3822

 35.1079, 59.7665,  
43.9166

 85.3000, 84.6073,  
92.9876

 86.3340, 85.0209,  
98.4324

 87.4071, 85.4502,  
104.0836

 87.8671, 85.6341,  
106.5057

# Harmonies

## Analogous

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



49.1287, 64.9650, 43.4421



45.9901, 64.9650, 62.9389



46.7393, 64.9650, 90.0653

# Triad

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



45.9901, 64.9650, 62.9389



68.1717, 64.9650, 128.9547



73.5412, 64.9650, 38.5143

# Complementary

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



45.9901, 64.9650, 62.9389



44.9044, 31.9476, 33.0804

# 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.



79.6664, 64.9650, 54.3910



45.9901, 64.9650, 62.9389



76.3604, 64.9650, 107.5777

# Square

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



45.9901, 64.9650, 62.9389



58.9612, 64.9650, 132.8696



80.7461, 64.9650, 79.1515



64.6198, 64.9650, 31.8114

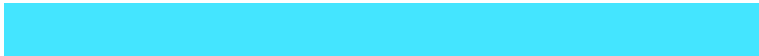


# Rectangle

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



45.9901, 64.9650, 62.9389



49.3750, 64.9650, 108.8755



80.7461, 64.9650, 79.1515



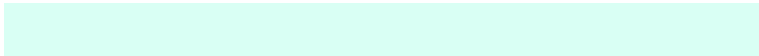
76.0309, 64.9650, 42.7398

# Sweetspot

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



45.9919, 64.9676, 62.9404



80.5682, 92.7403, 98.9173



44.5885, 65.0374, 27.0341



16.8571, 19.6563, 20.8840



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.



45.9919, 64.9676, 62.9404



53.1816, 79.1555, 73.5308



44.3666, 54.7632, 83.8363



14.6147, 16.2593, 17.5017



19.7384, 33.5275, 24.9203



1.4990, 2.4937, 2.0545



# Inverse Universe

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



44.9044, 31.9476, 33.0804



51.7046, 33.4552, 32.3439



45.5168, 36.9729, 21.5682



14.5530, 14.4384, 15.8465



19.1232, 9.7835, 4.2777

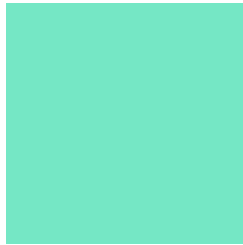


1.4530, 0.7389, 0.5259



# Previews

## White Background



This preview shows how the XYZ color 45.9901, 64.9650, 62.9389 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

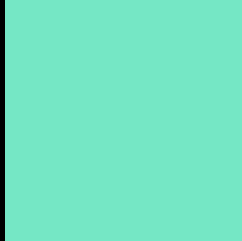
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.9901, 64.9650, 62.9389 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

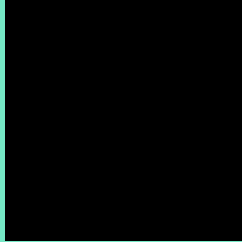
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

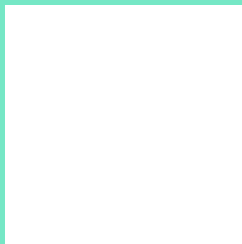
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 45.9901, 64.9650, 62.9389

## Background



This preview shows how black text looks on a background with the XYZ color 45.9901, 64.9650, 62.9389.



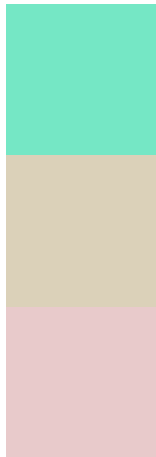
This preview shows how white text looks on a background with the XYZ color 45.9901, 64.9650,



# 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

45.9901, 64.9650, 62.9389

### Protanopia

60.7708, 64.1638, 55.0808

### Deuteranopia

65.1787, 63.7087, 65.3616



## Tritanopia

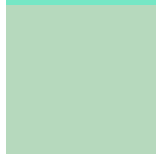
52.3088, 65.0673, 94.5963

# Trichromacy



## Original Color

45.9901, 64.9650, 62.9389



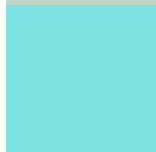
## Protanomaly

53.2896, 63.2449, 57.5429



## Deuteranomaly

55.5721, 62.7527, 64.4419



## Tritanomaly

49.6540, 64.7891, 81.8400

# Monochromacy



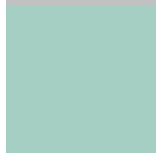
## Original Color

45.9901, 64.9650, 62.9389



## Achromatopsia

50.6879, 53.3276, 58.0738



## Achromatomaly

47.5675, 56.5200, 59.4413

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.9901, 64.9650, 62.9389 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(117, 231, 197)` looks like.

```
.text, #text, p{  
    color:rgb(117, 231, 197)  
}
```

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(117, 231, 197) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(117, 231, 197) }
```

## Border

The CSS property to change the border of an element to XYZ 45.9901, 64.9650, 62.9389 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(117, 231, 197) }
```



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

```
.border{ border-color:rgb(117, 231, 197) }
```

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

Here you see how a box with a 4 pixel `rgb(117, 231, 197)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(117, 231, 197); -webkit-box-shadow:4px 4px 4px 4px rgb(117, 231, 197); box-shadow:4px 4px 4px 4px rgb(117, 231, 197) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.9901, 64.9650, 62.9389 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(117, 231, 197) }
```

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

```
.background{ background-color: rgb(117,  
231, 197) }
```

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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