

# Converting Colors

XYZ(45.2620, 62.8293, 67.0301)

Have a look what the booklet for  
XYZ(45.2620, 62.8293, 67.0301)  
contains.

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# Color

**XYZ(45.3076, 62.8752,  
66.8749)**

# Conversions

## Conversions Part 1

Format	Color
Hex	72E3CC
RGB	114, 227, 204
RGB Percent	45%, 89%, 80%
CMY	0.5529, 0.1098, 0.2000
CMYK	0.50, 0.00, 0.10, 0.11
HSL	168°, 67%, 67%
HSV	168°, 50%, 89%
XYZ	45.3076, 62.8752, 66.8749
YIQ	190.5910, -59.9650, -31.1090

# Conversions

## Conversions Part 2

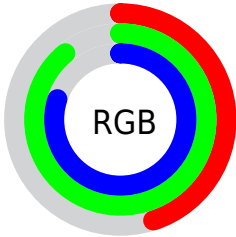
<b>Format</b>	<b>Color</b>
<b>RYB</b>	114, 177, 227
Decimal	7529420
CIELab	83.38, -37.76, 1.33
CIElCh	83, 37.787, 177.978
Yxy	62.8752, 0.2588, 0.3592
Android (android.graphics.Color)	4285719500 (0xFF72E3CC)
YUV	190.5910, 6.6106, -67.1703
Hunter-Lab	79.2939, -36.7715, 5.5017

# Details

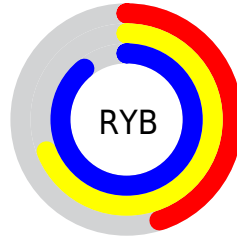
The XYZ color **45.3076, 62.8752, 66.8749** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **42.2134, 30.1734, 27.2684**, and the grayscale version is **49.2739, 51.8399, 56.4537**.

A 20% lighter version of the original color is **70.8233, 87.5107, 107.7662**, and **21.4332, 32.0316, 33.9072** is the 20% darker color. If you saturate the color by 10%, you get **42.1676, 61.3211, 63.8786**, and if you desaturate by 10%, it is **49.2002, 64.8185, 69.9950**.

# Distribution



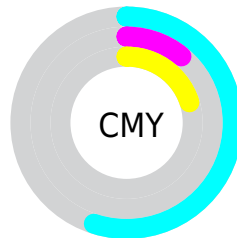
- Red (45%)
- Green (89%)
- Blue (80%)



- Red (45%)
- Yellow (69%)
- Blue (89%)



- Cyan (50%)
- Magenta (0%)
- Yellow (10%)
- Black (11%)




- Cyan (55%)
- Magenta (11%)
- Yellow (20%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.3076, 62.8752, 66.8749 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 45.3076, 62.8752, 66.8749 by changing the saturation by 10% instead.





 45.3076, 62.8752,  
66.8749

 45.3076, 62.8752,  
66.8749

358.7807,  
435.1164, 467.9887

 31.9021, 45.7403,  
48.5220


 82.4160, 108.9894,  
116.3801

 21.4419, 32.0409,  
33.8775


 106.8497,  
138.7375, 148.3695

 13.5617, 21.3927,  
22.5229

 135.6900,  
173.4588, 185.7414

 7.8961, 13.4114,  
14.0397

169.3025,  
213.5376, 228.9145

 4.0798, 7.7124,  
8.0092

208.0525,  
259.3584, 278.3072

 1.7474, 3.9115,  
4.0130

252.3053,

 0.4856, 1.6242,

311.3055, 334.3381

1.6325

302.4262,  
369.7634, 397.4258

■ 0.0000, 0.3738,  
0.3138

■ 0.0000, 0.0000,  
0.0000

■ 45.3076, 62.8752,  
66.8749

■ 45.3076, 62.8752,  
66.8749

■ 42.1676, 61.3211,  
63.8786

■ 49.2002, 64.8185,  
69.9950

■ 39.7195, 60.1203,  
60.9985


■ 53.8898, 67.1691,  
73.2376


■ 37.9020, 59.2427,  
58.2323


■ 59.4236, 69.9530,  
76.6070


■ 36.6399, 58.6496,  
55.5756


■ 65.8434, 73.1918,  
80.1058


 35.8064, 58.2755,  
53.0219


 73.1883, 76.9055,  
83.7366

 35.7896, 58.2681,  
52.9665

 81.4952, 81.1131,  
87.5019

 83.9011, 82.2767,  
91.0810

 84.5827, 82.5493,  
94.6702

 85.2818, 82.8289,  
98.3516

# Harmonies

## Analogous

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



47.3296, 62.8752, 47.1422



45.3076, 62.8752, 66.8749



46.8536, 62.8752, 91.9845

# Triad

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



45.3076, 62.8752, 66.8749



67.4921, 62.8752, 116.7584



68.5455, 62.8752, 36.7903

# Complementary

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



45.3076, 62.8752, 66.8749



42.2134, 30.1734, 27.2684

# 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.



74.8447, 62.8752, 49.3335



45.3076, 62.8752, 66.8749



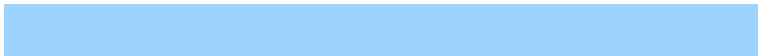
74.1983, 62.8752, 95.3958

# Square

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



45.3076, 62.8752, 66.8749



59.2048, 62.8752, 124.4374



77.0013, 62.8752, 70.0708



60.3207, 62.8752, 32.4375



# Rectangle

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



45.3076, 62.8752, 66.8749



49.7866, 62.8752, 107.9240



77.0013, 62.8752, 70.0708



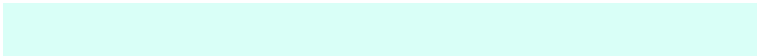
70.9858, 62.8752, 40.0230

# Sweetspot

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



45.3094, 62.8777, 66.8764



81.1225, 92.9620, 101.8367



41.0697, 61.6002, 25.6462



16.9915, 19.7101, 21.5915



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.



45.3094, 62.8777, 66.8764



54.6744, 79.7188, 82.9239



40.3179, 48.1485, 79.8444



14.6751, 16.2835, 17.8200



20.9149, 33.9981, 31.1160



1.5774, 2.5251, 2.4673



# Inverse Universe

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



42.2134, 30.1734, 27.2684



50.2350, 32.4602, 25.8605



44.9993, 38.1107, 20.9052



14.4964, 14.4157, 15.5483



18.7986, 9.6537, 2.5686

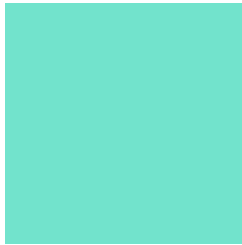


1.4221, 0.7266, 0.3634



# Previews

## White Background



This preview shows how the XYZ color 45.3076, 62.8752, 66.8749 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

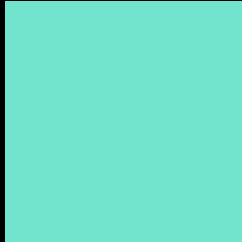
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.3076, 62.8752, 66.8749 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

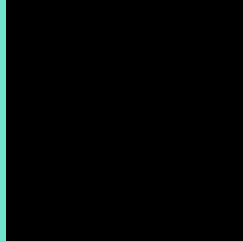
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

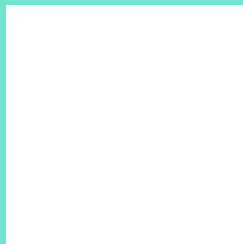
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 45.3076, 62.8752, 66.8749**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.3076, 62.8752, 66.8749.



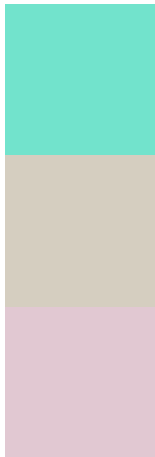
This preview shows how white text looks on a background with the XYZ color 45.3076, 62.8752,



# 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

45.3076, 62.8752, 66.8749

### Protanopia

59.0263, 62.0945, 58.7436

### Deuteranopia

63.3385, 61.9692, 69.5957



## Tritanopia

50.3069, 62.8938, 91.9263

# Trichromacy



## Original Color

45.3076, 62.8752, 66.8749



## Protanomaly

52.1418, 61.4258, 61.3327



## Deuteranomaly

54.4393, 60.9615, 68.5720



## Tritanomaly

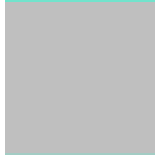
48.4059, 62.9223, 82.2670

# Monochromacy



## Original Color

45.3076, 62.8752, 66.8749



## Achromatopsia

49.5206, 52.0996, 56.7364



## Achromatomaly

46.6609, 54.9578, 60.3732

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.3076, 62.8752, 66.8749 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(114, 227, 204)` looks like.

```
.text, #text, p{  
    color:rgb(114, 227, 204)  
}
```

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(114, 227, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(114, 227, 204) }
```

## Border

The CSS property to change the border of an element to XYZ 45.3076, 62.8752, 66.8749 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(114, 227, 204) }
```



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

```
.border{ border-color:rgb(114, 227, 204) }
```

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

Here you see how a box with a 4 pixel `rgb(114, 227, 204)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(114, 227, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(114, 227, 204);  
box-shadow:4px 4px 4px 4px rgb(114, 227,  
204) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.3076, 62.8752, 66.8749 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(114, 227, 204) }
```

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

```
.background{ background-color: rgb(114,  
227, 204) }
```

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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