

# Converting Colors

XYZ(46.7516, 62.2989, 79.1320)

Have a look what the booklet for  
XYZ(46.7516, 62.2989, 79.1320)  
contains.

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# Color

**XYZ(46.6570, 62.0838,  
79.3363)**

# Conversions

## Conversions Part 1

| Format      | Color                        |
|-------------|------------------------------|
| Hex         | 70E0DF                       |
| RGB         | 112, 224, 223                |
| RGB Percent | 44%, 88%, 87%                |
| CMY         | 0.5608, 0.1216, 0.1255       |
| CMYK        | 0.50, 0.00, 0.00, 0.12       |
| HSL         | 179°, 64%, 66%               |
| HSV         | 179°, 50%, 88%               |
| XYZ         | 46.6570, 62.0838, 79.3363    |
| YIQ         | 190.3980, -66.4310, -24.0550 |

# Conversions

## Conversions Part 2

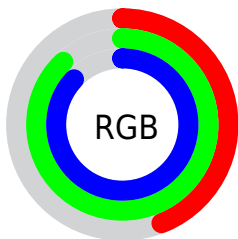
| <b>Format</b>                       | <b>Color</b>                   |
|-------------------------------------|--------------------------------|
| R <sub>Y</sub> B                    | 112, 168, 224                  |
| Decimal                             | 7397599                        |
| CIE Lab                             | 82.96, -32.12, -9.35           |
| CIE LCh                             | 83, 33.454, 196.235            |
| Yxy                                 | 62.0838, 0.2481,<br>0.3301     |
| Android<br>(android.graphics.Color) | 4285587679<br>(0xFF70E0DF)     |
| YUV                                 | 190.3980, 16.0728,<br>-68.7550 |
| Hunter-Lab                          | 78.7933, -32.1904,<br>-4.5433  |

# Details

The XYZ color **46.6570, 62.0838, 79.3363** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **39.5174, 28.6297, 19.0681**, and the grayscale version is **49.1123, 51.6699, 56.2685**.

A 20% lighter version of the original color is **70.6046, 87.3979, 107.7560**, and **22.1972, 31.4133, 41.9392** is the 20% darker color. If you saturate the color by 10%, you get **44.1272, 60.7842, 79.0783**, and if you desaturate by 10%, it is **49.8994, 63.7537, 79.6306**.

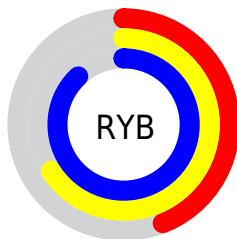
# Distribution



Red (44%)

Green (88%)

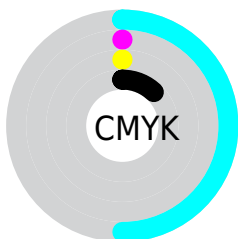
Blue (87%)



Red (44%)

Yellow (66%)

Blue (88%)

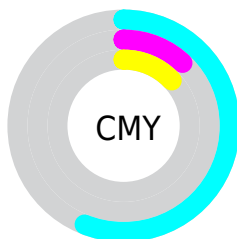


Cyan (50%)

Magenta (0%)

Yellow (0%)

Black (12%)



Cyan (56%)

Magenta (12%)

Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.6570, 62.0838, 79.3363 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 46.6570, 62.0838, 79.3363 by changing the saturation by 10% instead.





 46.6570, 62.0838,  
79.3363

 46.6570, 62.0838,  
79.3363


364.1156,  
432.2367, 512.3410


 32.9714, 45.1004,  
58.6494


 84.4233, 107.8466,  
134.2352

 22.2637, 31.5365,  
41.9128

 109.2346,  
137.3949, 169.2842

 14.1684, 21.0077,  
28.7080


 138.4853,  
171.9002, 209.9577

 8.3204, 13.1297,  
18.6163

172.5406,  
211.7470, 256.6742

 4.3542, 7.5179,  
11.2194

211.7660,  
257.3196, 309.8522

 1.9044, 3.7880,  
6.0986

256.5267,

 0.5794, 1.5557,

309.0025, 369.9103

2.8354

307.1881,  
367.1801, 437.2671

■ 0.0000, 0.3275,  
1.0112

■ 0.0000, 0.0000,  
0.0000

■ 46.6570, 62.0838,  
79.3363

■ 46.6570, 62.0838,  
79.3363

■ 44.1272, 60.7842,  
79.0783

■ 49.8994, 63.7537,  
79.6306

■ 42.2509, 59.8201,  
78.8496


■ 53.8970, 65.8113,  
79.9590

■ 40.9688, 59.1622,  
78.6489


■ 58.6954, 68.2819,  
80.3251


■ 40.2081, 58.7732,  
78.4728


■ 64.3353, 71.1862,  
80.7308


 39.8414, 58.5873,  
78.3153


 70.8542, 74.5437,  
81.1777

 39.8414, 58.5872,  
78.3153

 78.2879, 78.3728,  
81.6676

 81.4062, 79.9772,  
81.9557

 81.4335, 79.9881,  
82.0994

 81.4608, 79.9990,  
82.2432

# Harmonies

## Analogous

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



46.5246, 62.0838, 58.5722



46.6570, 62.0838, 79.3363



49.9168, 62.0838, 100.5732

# Triad

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



46.6570, 62.0838, 79.3363



69.6143, 62.0838, 99.0015



62.3743, 62.0838, 35.8659

# Complementary

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



46.6570, 62.0838, 79.3363



39.5174, 28.6297, 19.0681

# 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.



69.1428, 62.0838, 42.7568



46.6570, 62.0838, 79.3363



73.5475, 62.0838, 77.5079

# Square

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



46.6570, 62.0838, 79.3363



62.9763, 62.0838, 113.4140



73.3682, 62.0838, 57.0800



55.2115, 62.0838, 36.1575

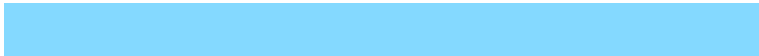


# Rectangle

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



46.6570, 62.0838, 79.3363



53.5887, 62.0838, 110.9111



73.3682, 62.0838, 57.0800



64.7825, 62.0838, 37.3471

# Sweetspot

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



46.6588, 62.0862, 79.3378



82.2959, 93.4314, 108.0157



36.5043, 58.0521, 24.6118



17.2771, 19.8243, 23.0954



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.



46.6588, 62.0862, 79.3378



59.0698, 81.4769, 106.0695



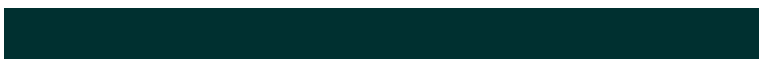
34.4883, 37.5281, 75.9496



14.1110, 15.5701, 17.6199



23.1922, 34.1017, 45.5965



1.6093, 2.3644, 3.1696



# Inverse Universe

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



39.5174, 28.6297, 19.0681



48.4581, 31.7494, 16.5036



47.3278, 44.3403, 21.3947



13.7122, 13.7025, 14.2547



17.9018, 9.2277, 0.8828

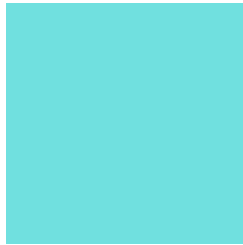


1.2426, 0.6403, 0.0706



# Previews

## White Background



This preview shows how the XYZ color 46.6570, 62.0838, 79.3363 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

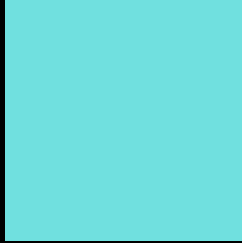
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.6570, 62.0838, 79.3363 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

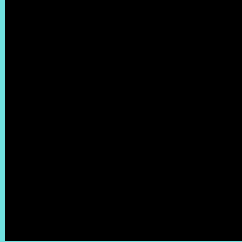
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 46.6570, 62.0838, 79.3363**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.6570, 62.0838, 79.3363.



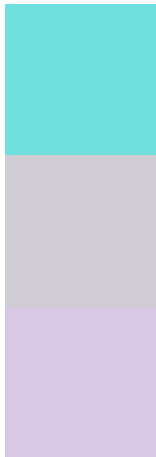
This preview shows how white text looks on a background with the XYZ color 46.6570, 62.0838,



# 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

46.6570, 62.0838, 79.3363

### Protanopia

59.0829, 61.1543, 70.3180

### Deuteranopia

62.6822, 61.3571, 81.9382



## Tritanopia

48.9077, 61.7964, 91.0116

# Trichromacy



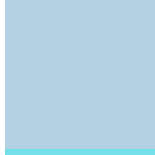
## Original Color

46.6570, 62.0838, 79.3363



## Protanomaly

52.5733, 60.2655, 73.1515



## Deuteranomaly

54.8880, 60.5569, 80.7472



## Tritanomaly

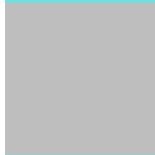
48.0317, 61.8387, 86.4953

# Monochromacy



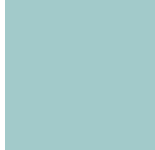
## Original Color

46.6570, 62.0838, 79.3363



## Achromatopsia

48.9429, 51.4918, 56.0745



## Achromatomaly

46.6815, 54.1867, 63.8758

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.6570, 62.0838, 79.3363 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(112, 224, 223)` looks like.

```
.text, #text, p{  
    color:rgb(112, 224, 223)  
}
```

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(112, 224, 223) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(112, 224, 223) }
```

## Border

The CSS property to change the border of an element to XYZ 46.6570, 62.0838, 79.3363 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(112, 224, 223) }
```



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

```
.border{ border-color:rgb(112, 224, 223) }
```

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

Here you see how a box with a 4 pixel `rgb(112, 224, 223)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(112, 224, 223); -webkit-box-shadow:4px 4px 4px 4px rgb(112, 224, 223); box-shadow:4px 4px 4px 4px rgb(112, 224, 223) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.6570, 62.0838, 79.3363 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(112, 224, 223) }
```

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

```
.background{ background-color: rgb(112,  
224, 223) }
```

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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