

# Converting Colors

XYZ(45.1030, 51.0766, 74.5000)

Have a look what the booklet for  
XYZ(45.1030, 51.0766, 74.5000)  
contains.

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# Color

**XYZ(45.1038, 51.0784,  
74.4997)**

# Conversions

## Conversions Part 1

Format	Color
Hex	96C4DB
RGB	150, 196, 219
RGB Percent	59%, 77%, 86%
CMY	0.4118, 0.2314, 0.1412
CMYK	0.32, 0.11, 0.00, 0.14
HSL	200°, 49%, 72%
HSV	200°, 32%, 86%
XYZ	45.1038, 51.0784, 74.4997
YIQ	184.8680, -34.7990, -2.5990

# Conversions

## Conversions Part 2

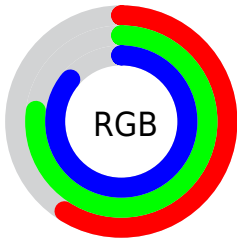
Format	Color
<a href="#">RYB</a>	<a href="#">150, 178, 219</a>
Decimal	<a href="#">9880795</a>
CIELab	<a href="#">76.73, -9.69, -16.36</a>
CIElCh	<a href="#">77, 19.015, 239.377</a>
Yxy	<a href="#">51.0784, 0.2643, 0.2993</a>
Android (android.graphics.Color)	<a href="#">4288070875</a> ( <a href="#">0xFF96C4DB</a> )
YUV	<a href="#">184.8680, 16.8271, -30.5792</a>
Hunter-Lab	<a href="#">71.4692, -12.4206, -11.7757</a>

# Details

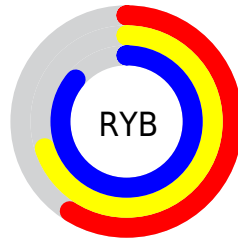
The XYZ color **45.1038, 51.0784, 74.4997** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **49.6627, 47.1497, 35.3388**, and the grayscale version is **45.9653, 48.3591, 52.6631**.

A 20% lighter version of the original color is **78.6289, 90.5924, 107.9496**, and **21.3036, 24.5677, 38.7412** is the 20% darker color. If you saturate the color by 10%, you get **39.8380, 45.9798, 73.7940**, and if you desaturate by 10%, it is **51.2060, 56.7295, 75.2697**.

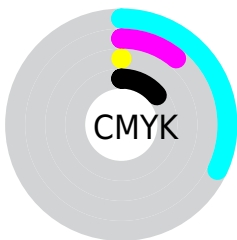
# Distribution



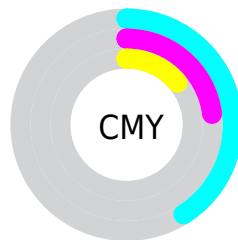
- Red (59%)
- Green (77%)
- Blue (86%)



- Red (59%)
- Yellow (70%)
- Blue (86%)



- Cyan (32%)
- Magenta (11%)
- Yellow (0%)
- Black (14%)



- Cyan (41%)
- Magenta (23%)
- Yellow (14%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.1038, 51.0784, 74.4997 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 45.1038, 51.0784, 74.4997 by changing the saturation by 10% instead.



■ 45.1038, 51.0784,  
74.4997

■ 45.1038, 51.0784,  
74.4997

357.9704,  
390.8683, 495.4057

■ 31.7408, 36.2710,  
54.7039

■ 82.1123, 91.7707,  
127.3445

■ 21.3182, 24.6436,  
38.7677

■ 106.4884,  
118.4243, 161.2305

■ 13.4706, 15.8117,  
26.2726

135.2664,  
149.7955, 200.6504

■ 7.8326, 9.3910,  
16.8001

168.8115,  
186.2686, 246.0226

■ 4.0389, 4.9971,  
9.9316

207.4891,  
228.2280, 297.7656

■ 1.7242, 2.2456,  
5.2486

251.6646,

■ 0.4713, 0.7447,

276.0582, 356.2982

2.3326

301.7032,  
330.1435, 422.0387

■ 0.0000, 0.0000,  
0.7494

■ 0.0000, 0.0000,  
0.0000

■ 45.1038, 51.0784,  
74.4997

■ 45.1038, 51.0784,  
74.4997

■ 39.8380, 45.9798,  
73.7940

■ 51.2060, 56.7295,  
75.2697

■ 35.3607, 41.4038,  
73.1467

■ 58.1797, 62.9492,  
76.1027

■ 31.6261, 37.3262,  
72.5565

■ 66.0637, 69.7604,  
77.0018

■ 28.5815, 33.7182,  
72.0205

■ 74.8930, 77.1826,  
77.9691

■ 26.1665, 30.5467,  
71.5357

■ 83.0242, 84.3702,  
78.9279

■ 24.3091, 27.7728,  
71.0981

■ 85.1277, 88.5772,  
79.6291

■ 23.0663, 25.6745,  
70.7586

■ 87.3176, 92.9571,  
80.3591

■ 89.5950, 97.5118,  
81.1182

■ 89.7863, 97.8945,  
81.1820

# Harmonies

## Analogous

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



42.7574, 51.0784, 65.9293



45.1038, 51.0784, 74.4997



48.4732, 51.0784, 77.9121

# Triad

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



45.1038, 51.0784, 74.4997



55.8119, 51.0784, 55.8317



45.2281, 51.0784, 40.0536

# Complementary

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



45.1038, 51.0784, 74.4997



49.6627, 47.1497, 35.3388

# 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.



48.6239, 51.0784, 38.0391



45.1038, 51.0784, 74.4997



54.8403, 51.0784, 46.4380

# Square

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



45.1038, 51.0784, 74.4997



54.7586, 51.0784, 66.3488



52.1642, 51.0784, 40.2272



42.8266, 51.0784, 46.1074



# Rectangle

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



45.1038, 51.0784, 74.4997



50.8839, 51.0784, 76.5147



52.1642, 51.0784, 40.2272



46.2857, 51.0784, 38.9175

# Sweetspot

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



45.1054, 51.0804, 74.5009



84.7130, 91.1204, 107.7309



45.3423, 60.1209, 48.1702



17.7961, 19.2103, 23.0200



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

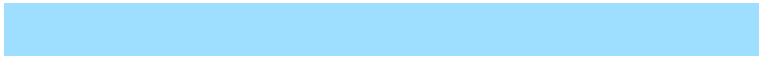


# Same Dimension

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



45.1054, 51.0804, 74.5009



58.4785, 67.1159, 104.4803



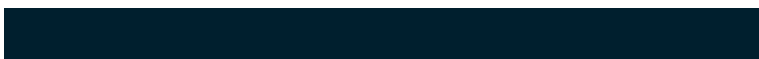
38.4002, 37.6701, 72.2658



13.0602, 14.0602, 16.6777



13.7815, 15.4325, 41.9908



0.9708, 1.1557, 2.7464



# Inverse Universe

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



50.0849, 40.8596, 57.4737



66.7632, 51.0595, 75.9388



56.8751, 61.5744, 37.7429



13.4203, 13.1972, 15.4744



20.4516, 10.1817, 17.2901



1.3643, 0.6754, 1.3274



# Previews

## White Background



This preview shows how the XYZ color 45.1038, 51.0784, 74.4997 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

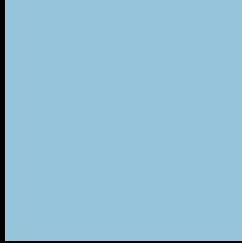
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.1038, 51.0784, 74.4997 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

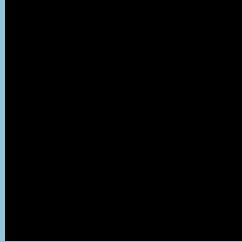
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 45.1038, 51.0784, 74.4997

## Background



This preview shows how black text looks on a background with the XYZ color 45.1038, 51.0784, 74.4997.



This preview shows how white text looks on a background with the XYZ color 45.1038, 51.0784,



# 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

45.1038, 51.0784, 74.4997

### Protanopia

49.7881, 50.6590, 70.1048

### Deuteranopia

51.6775, 50.5778, 75.4454



## Tritanopia

44.3709, 51.1262, 70.4805

# Trichromacy



**Original Color**

45.1038, 51.0784, 74.4997

**Protanomaly**

47.6925, 50.5039, 71.5245

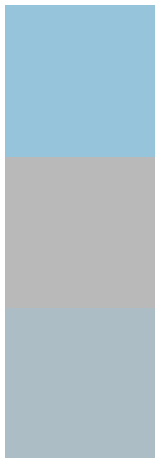
**Deuteranomaly**

48.8060, 50.3639, 74.8590

**Tritanomaly**

44.6264, 51.2284, 71.8260

# Monochromacy



**Original Color**

45.1038, 51.0784, 74.4997

**Achromatopsia**

46.1135, 48.5150, 52.8328

**Achromatomaly**

45.2889, 49.1971, 59.9323

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.1038, 51.0784, 74.4997 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(150, 196, 219)` looks like.

```
.text, #text, p{  
    color:rgb(150, 196, 219)  
}
```

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(150, 196, 219) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(150, 196, 219) }
```

## Border

The CSS property to change the border of an element to XYZ 45.1038, 51.0784, 74.4997 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(150, 196, 219) }
```



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

```
.border{ border-color:rgb(150, 196, 219) }
```

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

Here you see how a box with a 4 pixel `rgb(150, 196, 219)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(150, 196, 219); -webkit-box-  
shadow:4px 4px 4px 4px rgb(150, 196, 219);  
box-shadow:4px 4px 4px 4px rgb(150, 196,  
219) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.1038, 51.0784, 74.4997 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(150, 196, 219) }
```

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

```
.background{ background-color: rgb(150,  
196, 219) }
```

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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