

# Converting Colors

XYZ(45.6095, 52.2586, 72.6932)

Have a look what the booklet for  
XYZ(45.6095, 52.2586, 72.6932)  
contains.

<b>XYZ(45.7670, 52.4801, 72.6832)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(45.7670, 52.4801,  
72.6832)**

# Conversions

## Conversions Part 1

Format	Color
Hex	98C7D8
RGB	152, 199, 216
RGB Percent	60%, 78%, 85%
CMY	0.4039, 0.2196, 0.1529
CMYK	0.30, 0.08, 0.00, 0.15
HSL	196°, 45%, 72%
HSV	196°, 30%, 85%
XYZ	45.7670, 52.4801, 72.6832
YIQ	186.8850, -33.4690, -4.6770

# Conversions

## Conversions Part 2

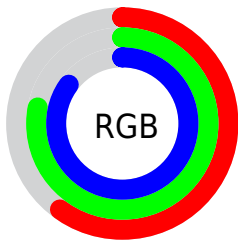
<b>Format</b>	<b>Color</b>
<b>RYB</b>	152, 179, 216
Decimal	10012632
CIELab	77.57, -11.41, -13.47
CIElCh	78, 17.650, 229.740
Yxy	52.4801, 0.2678, 0.3070
Android (android.graphics.Color)	4288202712 (0xFF98C7D8)
YUV	186.8850, 14.3537, -30.5941
Hunter-Lab	72.4432, -14.0056, -8.7763

# Details

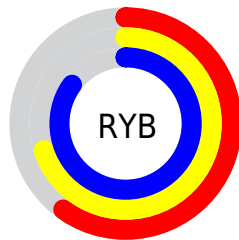
The XYZ color **45.7670, 52.4801, 72.6832** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **48.1751, 45.2424, 35.9007**, and the grayscale version is **47.1057, 49.5589, 53.9696**.

A 20% lighter version of the original color is **79.8224, 92.1499, 108.1874**, and **21.7040, 25.4767, 37.4918** is the 20% darker color. If you saturate the color by 10%, you get **40.7917, 47.9937, 72.0804**, and if you desaturate by 10%, it is **51.5314, 57.4497, 73.3395**.

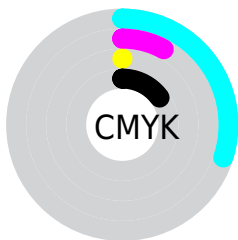
# Distribution



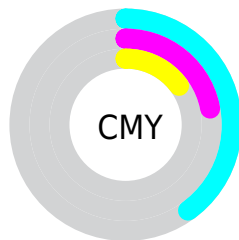
- Red (60%)
- Green (78%)
- Blue (85%)



- Red (60%)
- Yellow (70%)
- Blue (85%)



- Cyan (30%)
- Magenta (8%)
- Yellow (0%)
- Black (15%)




- Cyan (40%)
- Magenta (22%)
- Yellow (15%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.7670, 52.4801, 72.6832 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 45.7670, 52.4801, 72.6832 by changing the saturation by 10% instead.




 45.7670, 52.4801,  
72.6832

 45.7670, 52.4801,  
72.6832


360.6028,  
396.2873, 488.9574

 32.2658, 37.3879,  
53.2267


 83.1002, 93.8389,  
124.7441

 21.7212, 25.5080,  
37.5948


 107.6629,  
120.8743, 158.1856

 13.7676, 16.4559,  
25.3690


136.6436,  
152.6595, 197.1259

 8.0398, 9.8473,  
16.1307

170.4075,  
189.5790, 241.9834

 4.1725, 5.2979,  
9.4613

209.3200,  
232.0171, 293.1768

 1.8002, 2.4231,  
4.9424

253.7465,

 0.5178, 0.8377,

280.3583, 351.1246

2.1553

304.0523,  
334.9869, 416.2453

■ 0.0000, 0.0000,  
0.6484

■ 0.0000, 0.0000,  
0.0000

■ 45.7670, 52.4801,  
72.6832

■ 45.7670, 52.4801,  
72.6832

■ 40.7917, 47.9937,  
72.0804

■ 51.5314, 57.4497,  
73.3395

■ 36.5603, 43.9626,  
71.5253

■ 58.1177, 62.9164,  
74.0475

■ 33.0299, 40.3652,  
71.0170

■ 65.5625, 68.9012,  
74.8103

■ 30.1513, 37.1752,  
70.5530

■ 73.8987, 75.4216,  
75.6295

■ 27.8683, 34.3628,  
70.1305

■ 81.2925, 81.5332,  
76.4195

■ 26.1146, 31.8930,  
69.7462

■ 82.8942, 84.7366,  
76.9534

■ 24.7765, 29.7063,  
69.3946

■ 84.5487, 88.0457,  
77.5049

■ 24.7299, 29.6280,  
69.3820

■ 86.2566, 91.4614,  
78.0742

■ 88.0183, 94.9848,  
78.6614

# Harmonies

## Analogous

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



43.9670, 52.4801, 63.7138



45.7670, 52.4801, 72.6832



48.7234, 52.4801, 77.6562

# Triad

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



45.7670, 52.4801, 72.6832



56.6066, 52.4801, 60.5481



47.7013, 52.4801, 41.2438

# Complementary

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



45.7670, 52.4801, 72.6832



48.1751, 45.2424, 35.9007

# 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.



51.0563, 52.4801, 40.6016



45.7670, 52.4801, 72.6832



56.3023, 52.4801, 51.0383

# Square

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



45.7670, 52.4801, 72.6832



55.0472, 52.4801, 70.1403



54.2339, 52.4801, 43.9907



45.0481, 52.4801, 45.8577



# Rectangle

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



45.7670, 52.4801, 72.6832



50.9969, 52.4801, 77.6924



54.2339, 52.4801, 43.9907



48.7810, 52.4801, 40.5781

# Sweetspot

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



45.7686, 52.4822, 72.6844



85.1912, 92.0766, 107.8902



44.5738, 58.6153, 46.0117



17.9143, 19.4467, 23.0593



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

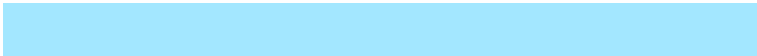


# Same Dimension

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



45.7686, 52.4822, 72.6844



61.6645, 71.9661, 105.2485



39.3474, 39.6399, 70.5440



12.5002, 13.5238, 15.8890



14.7301, 17.7219, 41.0975



0.9546, 1.2012, 2.5009



# Inverse Universe

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



49.8572, 41.1803, 59.3559



68.7427, 53.2735, 81.9788



54.6417, 58.1756, 38.0562



12.8057, 12.5738, 14.9169



20.4939, 10.1339, 20.4368

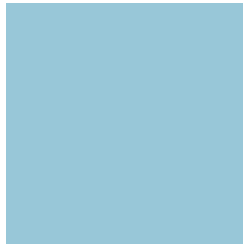


1.2695, 0.6246, 1.4085



# Previews

## White Background



This preview shows how the XYZ color 45.7670, 52.4801, 72.6832 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

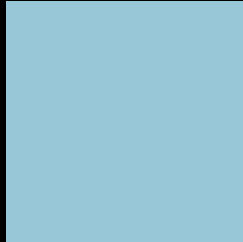
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.7670, 52.4801, 72.6832 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

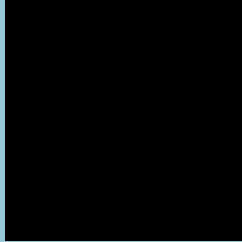
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 45.7670, 52.4801, 72.6832

## Background



This preview shows how black text looks on a background with the XYZ color 45.7670, 52.4801, 72.6832.



This preview shows how white text looks on a background with the XYZ color 45.7670, 52.4801,



# 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

45.7670, 52.4801, 72.6832

### Protanopia

51.0326, 52.2989, 68.3778

### Deuteranopia

53.3710, 52.1026, 74.2617



## Tritanopia

45.6381, 52.4285, 72.0043

# Trichromacy



## Original Color

45.7670, 52.4801, 72.6832

## Protanomaly

48.8581, 52.1235, 69.7731

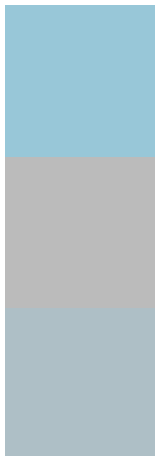
## Deuteranomaly

50.3417, 52.1473, 73.7418

## Tritanomaly

45.6381, 52.4285, 72.0043

# Monochromacy



## Original Color

45.7670, 52.4801, 72.6832

## Achromatopsia

47.2335, 49.6933, 54.1160

## Achromatomaly

46.2794, 50.3375, 60.7030

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.7670, 52.4801, 72.6832 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(152, 199, 216)` looks like.

```
.text, #text, p{  
    color:rgb(152, 199, 216)  
}
```

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(152, 199, 216) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(152, 199, 216) }
```

## Border

The CSS property to change the border of an element to XYZ 45.7670, 52.4801, 72.6832 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(152, 199, 216) }
```



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

```
.border{ border-color:rgb(152, 199, 216) }
```

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

Here you see how a box with a 4 pixel `rgb(152, 199, 216)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(152, 199, 216); -webkit-box-shadow:4px 4px 4px 4px rgb(152, 199, 216); box-shadow:4px 4px 4px 4px rgb(152, 199, 216) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.7670, 52.4801, 72.6832 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(152, 199, 216) }
```

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

```
.background{ background-color: rgb(152,  
199, 216) }
```

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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