

# Converting Colors

XYZ(45.6253, 66.7578, 90.7166)

Have a look what the booklet for  
XYZ(45.6253, 66.7578, 90.7166)  
contains.

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# Color

**XYZ(45.5702, 66.6828,  
90.5900)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00EDED
RGB	0, 237, 237
RGB Percent	0%, 93%, 93%
CMY	0.9998, 0.0706, 0.0706
CMYK	1.00, 0.00, 0.00, 0.07
HSL	180°, 100%, 46%
HSV	180°, 100%, 93%
XYZ	45.5702, 66.6828, 90.5900
YIQ	166.1370, -141.2520, -50.2440

# Conversions

## Conversions Part 2

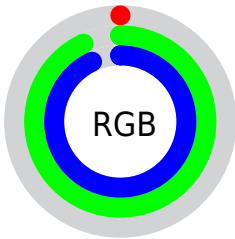
Format	Color
<a href="#">RYB</a>	<a href="#">0, 119, 237</a>
Decimal	<a href="#">60909</a>
CIELab	<a href="#">85.34, -45.49, -13.38</a>
CIELCh	<a href="#">85, 47.414, 196.386</a>
Yxy	<a href="#">66.6828, 0.2247, 0.3287</a>
Android (android.graphics.Color)	<a href="#">4278250989</a> ( <a href="#">0xFF00EDED</a> )
YUV	<a href="#">166.1370, 34.9355, -145.7021</a>
Hunter-Lab	<a href="#">81.6595, -43.2921, -8.6124</a>

# Details

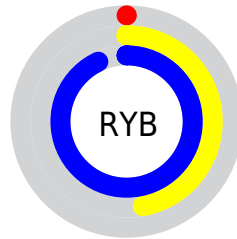
The XYZ color **45.5702, 66.6828, 90.5900** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light washed cyan. A complement of this color would be **34.9272, 18.0066, 1.6365**, and the grayscale version is **36.2065, 38.0920, 41.4822**.

A 20% lighter version of the original color is **61.0125, 82.4530, 107.3071**, and **24.6617, 35.9787, 49.3608** is the 20% darker color. If you saturate the color by 10%, you get **45.5715, 66.6849, 90.5916**, and if you desaturate by 10%, it is **45.9425, 66.8762, 90.6091**.

# Distribution



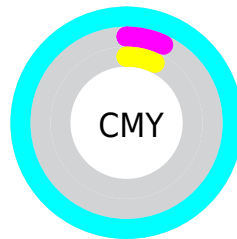
- Red (0%)
- Green (93%)
- Blue (93%)



- Red (0%)
- Yellow (47%)
- Blue (93%)



- Cyan (100%)
- Magenta (0%)
- Yellow (0%)
- Black (7%)




- Cyan (100%)
- Magenta (7%)
- Yellow (7%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.5702, 66.6828, 90.5900 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 45.5702, 66.6828, 90.5900 by changing the saturation by 10% instead.





 45.5702, 66.6828,  
90.5900


 45.5702, 66.6828,  
90.5900


359.8230,  
448.8149, 550.5678


 32.1100, 48.8269,  
67.8936


 82.8072, 114.4658,  
150.1003


 21.6015, 34.4822,  
49.3450


 107.3147,  
145.1616, 187.7514

 13.6793, 23.2643,  
34.5257

 136.2353,  
180.9063, 231.2244

 7.9782, 14.7888,  
23.0172

 169.9345,  
222.0841, 280.9379

 4.1327, 8.6713,  
14.4008

 208.7774,  
269.0794, 337.3104

 1.7775, 4.5274,  
8.2580

253.1296,

 0.5040, 1.9727,

322.2768, 400.7606

4.1703

303.3563,  
382.0604, 471.7068

■ 0.0000, 0.5916,  
1.7193

■ 0.0000, 0.0000,  
0.3739

■ 45.5702, 66.6828,  
90.5900

■ 45.5702, 66.6828,  
90.5900

■ 45.5715, 66.6849,  
90.5916

■ 45.9425, 66.8762,  
90.6091

■ 46.7652, 67.3002,  
90.6477

■ 48.1819, 68.0306,  
90.7142

■ 50.2765, 69.1104,  
90.8123

■ 53.1193, 70.5759,  
90.9455

■ 56.7720, 72.4589,  
91.1166

■ 61.2896, 74.7879,  
91.3282

■ 66.7227, 77.5887,  
91.5826

■ 73.1177, 80.8855,  
91.8820

# Harmonies

## Analogous

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



45.3631, 66.6828, 59.5636



45.5702, 66.6828, 90.5900



50.1831, 66.6828, 124.3580

# Triad

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



45.5702, 66.6828, 90.5900



79.5273, 66.6828, 121.4855



68.3629, 66.6828, 28.9787

# Complementary

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



45.5702, 66.6828, 90.5900



34.9272, 18.0066, 1.6365

# 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.



78.7087, 66.6828, 37.6694



45.5702, 66.6828, 90.5900



85.6290, 66.6828, 87.4260

# Square

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



45.5702, 66.6828, 90.5900



69.3824, 66.6828, 145.3559



85.3135, 66.6828, 57.1755



57.7341, 66.6828, 29.3818

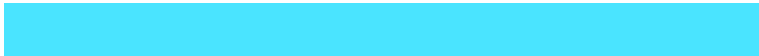


# Rectangle

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



45.5702, 66.6828, 90.5900



55.4671, 66.6828, 141.3454



85.3135, 66.6828, 57.1755



72.0118, 66.6828, 30.7982

# Sweetspot

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



45.5722, 66.6853, 90.5916



72.2849, 88.2642, 107.8341



30.3357, 60.5964, 10.0991



14.9625, 18.6295, 23.0571



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.



45.5722, 66.6853, 90.5916



53.8097, 78.7399, 106.9683



22.3060, 20.1524, 82.8376



15.5177, 17.1219, 19.4092



24.8795, 36.4063, 49.4580



1.9536, 2.8588, 3.8837



# Inverse Universe

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



34.9272, 18.0066, 1.6365



41.2400, 21.2600, 1.9301



41.0098, 30.1717, 3.6640



15.0655, 15.0541, 15.6304



19.0678, 9.8298, 0.8924

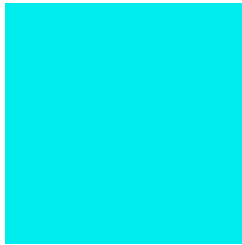


1.4973, 0.7719, 0.0701



# Previews

## White Background



This preview shows how the XYZ color 45.5702, 66.6828, 90.5900 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

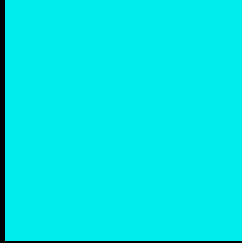
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.5702, 66.6828, 90.5900 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

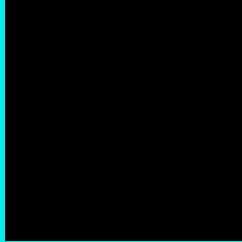
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 45.5702, 66.6828, 90.5900

## Background



This preview shows how black text looks on a background with the XYZ color 45.5702, 66.6828, 90.5900.



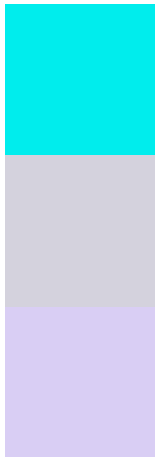
This preview shows how white text looks on a background with the XYZ color 45.5702, 66.6828,



# 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

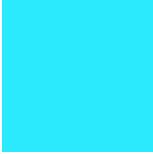
45.5702, 66.6828, 90.5900

### Protanopia

63.2491, 65.3107, 77.6793

### Deuteranopia

67.0157, 65.4260, 94.6843



## **Tritanopia**

48.3085, 66.5150, 104.0585

# Trichromacy



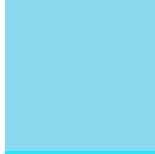
## Original Color

45.5702, 66.6828, 90.5900



## Protanomaly

49.4500, 61.8833, 82.0114



## Deuteranomaly

51.1713, 61.3799, 92.3696



## Tritanomaly

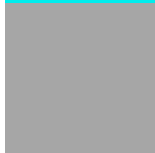
47.1036, 66.4270, 99.1460

# Monochromacy



## Original Color

45.5702, 66.6828, 90.5900



## Achromatopsia

36.2450, 38.1326, 41.5264



## Achromatomaly

34.3079, 44.5692, 56.6637

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.5702, 66.6828, 90.5900 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(0, 237, 237)` looks like.

```
.text, #text, p{  
    color:rgb(0, 237, 237)  
}
```

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(0, 237, 237) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 237, 237) }
```

## Border

The CSS property to change the border of an element to XYZ 45.5702, 66.6828, 90.5900 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(0, 237, 237) }
```



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

```
.border{ border-color:rgb(0, 237, 237) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 237, 237)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 237, 237); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 237, 237);  
box-shadow:4px 4px 4px 4px rgb(0, 237,  
237) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.5702, 66.6828, 90.5900 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 237, 237) }
```

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

```
.background{ background-color: rgb(0, 237,  
237) }
```

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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