

# Converting Colors

XYZ(45.6705, 66.6925, 89.3676)

Have a look what the booklet for  
XYZ(45.6705, 66.6925, 89.3676)  
contains.

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# Color

**XYZ(45.6563, 66.7607,  
89.0770)**

# Conversions

## Conversions Part 1

Format	Color
Hex	18EDEB
RGB	24, 237, 235
RGB Percent	9%, 93%, 92%
CMY	0.9057, 0.0706, 0.0784
CMYK	0.90, 0.00, 0.01, 0.07
HSL	179°, 86%, 51%
HSV	179°, 90%, 93%
XYZ	45.6563, 66.7607, 89.0770
YIQ	173.0850, -126.3060, -45.7780

# Conversions

## Conversions Part 2

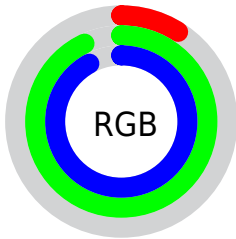
Format	Color
R <sub>Y</sub> B	24, 131, 237
Decimal	1633771
CIE Lab	85.38, -45.41, -12.26
CIE LCh	85, 47.037, 195.102
Yxy	66.7607, 0.2266, 0.3313
Android (android.graphics.Color)	4279823851 (0xFF18EDEB)
YUV	173.0850, 30.5241, -130.7475
Hunter-Lab	81.7072, -43.2455, -7.4427

# Details

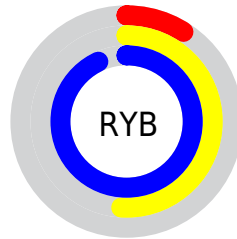
The XYZ color **45.6563, 66.7607, 89.0770** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light washed cyan. A complement of this color would be **35.4404, 18.7346, 2.7277**, and the grayscale version is **39.6654, 41.7311, 45.4451**.

A 20% lighter version of the original color is **61.5557, 82.7331, 107.3325**, and **24.4579, 35.8972, 48.2876** is the 20% darker color. If you saturate the color by 10%, you get **45.2528, 66.5579, 88.8917**, and if you desaturate by 10%, it is **46.5195, 67.2034, 89.2870**.

# Distribution



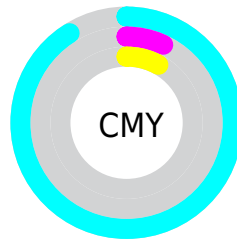
- Red (9%)
- Green (93%)
- Blue (92%)



- Red (9%)
- Yellow (51%)
- Blue (93%)



- Cyan (90%)
- Magenta (0%)
- Yellow (1%)
- Black (7%)



- Cyan (91%)
- Magenta (7%)
- Yellow (8%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.6563, 66.7607, 89.0770 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 45.6563, 66.7607, 89.0770 by changing the saturation by 10% instead.



45.6563, 66.7607,  
89.0770

45.6563, 66.7607,  
89.0770

360.1643,  
449.0925, 545.5162

32.1782, 48.8902,  
66.6460

82.9354, 114.5775,  
147.9799

21.6538, 34.5324,  
48.3372

107.4671,  
145.2925, 185.2889

13.7179, 23.3029,  
33.7321

136.4140,  
181.0578, 228.3943

8.0051, 14.8173,  
22.4122

170.1415,  
222.2578, 277.7146

4.1501, 8.6913,  
13.9589

209.0149,  
269.2769, 333.6685

1.7874, 4.5404,  
7.9536

253.3996,

0.5100, 1.9802,

322.4994, 396.6743

3.9779

303.6609,  
382.3098, 467.1507

■ 0.0000, 0.5959,  
1.6133

■ 0.0000, 0.0000,  
0.3002

■ 45.6563, 66.7607,  
89.0770

■ 45.6563, 66.7607,  
89.0770

■ 45.2528, 66.5579,  
88.8917

■ 46.5195, 67.2034,  
89.2870

■ 45.2482, 66.5555,  
88.8891

■ 47.9759, 67.9505,  
89.5235

■ 50.1111, 69.0475,  
89.7920

■ 52.9953, 70.5306,  
90.0958

■ 56.6900, 72.4316,  
90.4376

■ 61.2504, 74.7788,  
90.8203

■ 66.7269, 77.5983,  
91.2459

■ 73.1657, 80.9139,  
91.7169

■ 80.6104, 84.7480,  
92.2351

# Harmonies

## Analogous

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



45.6411, 66.7607, 58.6239



45.6563, 66.7607, 89.0770



50.0623, 66.7607, 122.6862

# Triad

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



45.6563, 66.7607, 89.0770



79.1032, 66.7607, 122.4766



68.8691, 66.7607, 29.4506

# Complementary

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



45.6563, 66.7607, 89.0770



35.4404, 18.7346, 2.7277

# 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.



79.0434, 66.7607, 38.5430



45.6563, 66.7607, 89.0770



85.3864, 66.7607, 88.8457

# Square

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



45.6563, 66.7607, 89.0770



68.9436, 66.7607, 145.3396



85.3633, 66.7607, 58.4489



58.2639, 66.7607, 29.4803



# Rectangle

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



45.6563, 66.7607, 89.0770



55.2127, 66.7607, 139.9679



85.3633, 66.7607, 58.4489



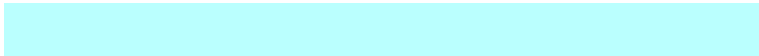
72.4772, 66.7607, 31.3982

# Sweetspot

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



45.6583, 66.7632, 89.0786



73.9921, 89.1563, 107.3716



30.9180, 60.8775, 10.9871



15.3950, 18.8554, 22.9466



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.



45.6583, 66.7632, 89.0786



53.4265, 78.5866, 104.9503



24.1987, 23.3785, 83.3604



15.5112, 17.1193, 19.3750



24.7060, 36.3369, 48.5443



1.9420, 2.8541, 3.8223



# Inverse Universe

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



35.4404, 18.7346, 2.7277



41.2531, 21.2653, 1.9991



42.6769, 33.2422, 5.0332



15.0712, 15.0563, 15.6605



19.0771, 9.8335, 0.9415

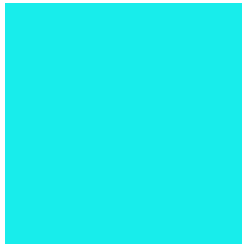


1.5000, 0.7730, 0.0846



# Previews

## White Background



This preview shows how the XYZ color 45.6563, 66.7607, 89.0770 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

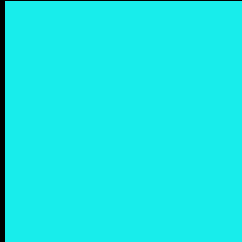
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.6563, 66.7607, 89.0770 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

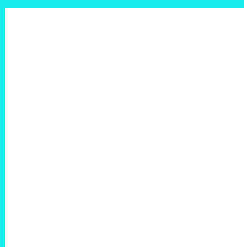
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 45.6563, 66.7607, 89.0770**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.6563, 66.7607, 89.0770.



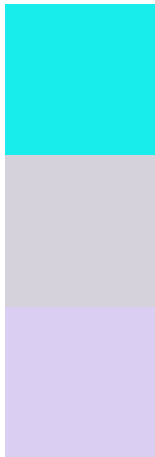
This preview shows how white text looks on a background with the XYZ color 45.6563, 66.7607,



# 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

45.6563, 66.7607, 89.0770

### Protanopia

63.2733, 65.3538, 76.2975

### Deuteranopia

67.0118, 65.4588, 93.1073



## Tritanopia

48.4678, 66.6156, 103.2321

# Trichromacy



## Original Color

45.6563, 66.7607, 89.0770



## Protanomaly

50.6854, 62.5519, 80.6365



## Deuteranomaly

52.4255, 62.0607, 90.8772



## Tritanomaly

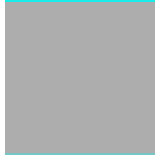
47.2573, 66.5419, 97.5419

# Monochromacy



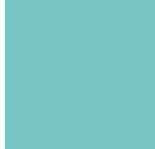
## Original Color

45.6563, 66.7607, 89.0770



## Achromatopsia

39.7200, 41.7885, 45.5077



## Achromatomaly

37.3115, 47.3873, 59.4047

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.6563, 66.7607, 89.0770 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(24, 237, 235)` looks like.

```
.text, #text, p{  
    color:rgb(24, 237, 235)  
}
```

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(24, 237, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(24, 237, 235) }
```

## Border

The CSS property to change the border of an element to XYZ 45.6563, 66.7607, 89.0770 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(24, 237, 235) }
```



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

```
.border{ border-color:rgb(24, 237, 235) }
```

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

Here you see how a box with a 4 pixel rgb(24, 237, 235) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(24, 237, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(24, 237, 235);  
box-shadow:4px 4px 4px 4px rgb(24, 237,  
235) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.6563, 66.7607, 89.0770 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(24, 237, 235) }
```

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

```
.background{ background-color: rgb(24, 237,  
235) }
```

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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