

# Converting Colors

XYZ(36.7248, 48.2781, 85.7293)

Have a look what the booklet for  
XYZ(36.7248, 48.2781, 85.7293)  
contains.

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# Color

**XYZ(36.7187, 48.2028,  
85.9660)**

# Conversions

## Conversions Part 1

Format	Color
Hex	27C9EB
RGB	39, 201, 235
RGB Percent	15%, 79%, 92%
CMY	0.8470, 0.2118, 0.0784
CMYK	0.83, 0.14, 0.00, 0.08
HSL	190°, 83%, 54%
HSV	190°, 83%, 92%
XYZ	36.7187, 48.2028, 85.9660
YIQ	156.4380, -107.4660, -23.7700

# Conversions

## Conversions Part 2

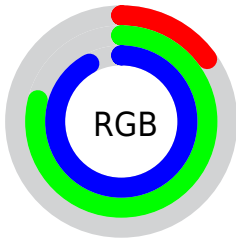
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	39, 128, 235
Decimal	2607595
CIE <sub>Lab</sub>	74.95, -27.88, -28.03
CIE <sub>LCh</sub>	75, 39.540, 225.156
Yxy	48.2028, 0.2149, 0.2821
Android (android.graphics.Color)	4280797675 (0xFF27C9EB)
YUV	156.4380, 38.7311, -102.9931
Hunter-Lab	69.4282, -27.0956, -24.8131

# Details

The XYZ color **36.7187, 48.2028, 85.9660** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light washed cyan. A complement of this color would be **37.0116, 22.5764, 4.3281**, and the grayscale version is **31.6654, 33.3144, 36.2794**.

A 20% lighter version of the original color is **61.6952, 82.8049, 107.3390**, and **18.5704, 24.1221, 46.3251** is the 20% darker color. If you saturate the color by 10%, you get **35.1506, 46.0031, 85.6250**, and if you desaturate by 10%, it is **38.8652, 50.7399, 86.3435**.

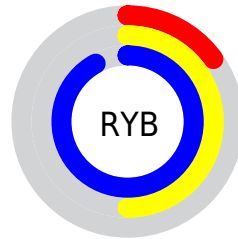
# Distribution



Red (15%)

Green (79%)

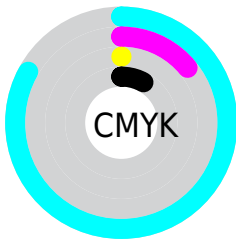
Blue (92%)



Red (15%)

Yellow (50%)

Blue (92%)

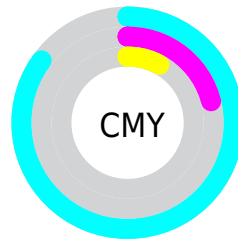


Cyan (83%)

Magenta (14%)

Yellow (0%)

Black (8%)



Cyan (85%)

Magenta (21%)

Yellow (8%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.7187, 48.2028, 85.9660 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 36.7187, 48.2028, 85.9660 by changing the saturation by 10% instead.



36.7187, 48.2028,  
85.9660

36.7187, 48.2028,  
85.9660

323.4678,  
379.5954, 535.0468

25.1624, 33.9875,  
64.0851

69.4566, 87.5063,  
143.6082

16.3275, 22.8840,  
46.2730

91.3689, 113.3633,  
180.2065

9.8485, 14.5079,  
32.1111

117.4640,  
143.8696, 222.5478

5.3601, 8.4747,  
21.1808

148.1071,  
179.4097, 271.0505

2.4970, 4.4002,  
13.0637

183.6637,  
220.3679, 326.1333

0.8937, 1.8999,  
7.3412

224.4991,

0.0000, 0.5483,

267.1287, 388.2145

3.5947

270.9787,  
320.0764, 457.7129

■ 0.0000, 0.0000,  
1.4058

■ 0.0000, 0.0000,  
0.1462

■ 36.7187, 48.2028,  
85.9660

■ 36.7187, 48.2028,  
85.9660

■ 35.1506, 46.0031,  
85.6250

■ 38.8652, 50.7399,  
86.3435

■ 34.3394, 44.6860,  
85.4135

■ 41.6739, 53.6552,  
86.7582

■ 45.2193, 56.9883,  
87.2147

■ 49.5643, 60.7719,  
87.7160

■ 54.7653, 65.0353,  
88.2648

■ 60.8732, 69.8051,  
88.8635

■ 67.9350, 75.1058,  
89.5145

■ 75.9943, 80.9600,  
90.2197

■ 85.0920, 87.3892,  
90.9811

# Harmonies

## Analogous

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



33.6954, 48.2028, 63.5638



36.7187, 48.2028, 85.9660



42.3550, 48.2028, 100.9735

# Triad

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



36.7187, 48.2028, 85.9660



60.5638, 48.2028, 63.3264



42.2857, 48.2028, 22.7343

# Complementary

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



36.7187, 48.2028, 85.9660



37.0116, 22.5764, 4.3281

# 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.



49.4592, 48.2028, 22.7022



36.7187, 48.2028, 85.9660



60.5403, 48.2028, 42.7741

# Square

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



36.7187, 48.2028, 85.9660



56.3638, 48.2028, 85.7534



56.3024, 48.2028, 29.0681



36.6726, 48.2028, 29.1715

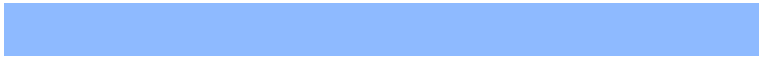


# Rectangle

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



36.7187, 48.2028, 85.9660



47.0725, 48.2028, 102.7851



56.3024, 48.2028, 29.0681



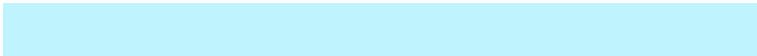
44.5807, 48.2028, 22.0428

# Sweetspot

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



36.7203, 48.2045, 85.9672



71.9317, 82.9946, 106.8361



31.7055, 60.3128, 16.0473



14.8282, 17.3234, 22.8122



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

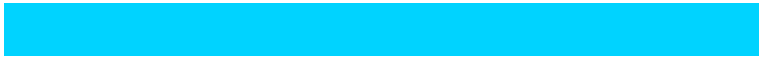


# Same Dimension

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



36.7203, 48.2045, 85.9672



41.2855, 53.6910, 102.7952



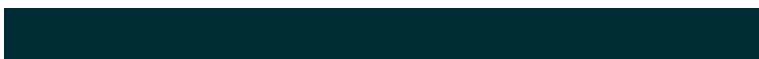
20.8183, 16.4005, 80.6665



15.2824, 16.6513, 19.3308



19.1949, 25.0368, 47.5639



1.5657, 2.0830, 3.7544



# Inverse Universe

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



45.5304, 23.3318, 57.3638



52.9682, 25.9513, 63.6899



48.9415, 46.4363, 8.3047



15.5961, 15.2663, 18.4244



24.5440, 12.0203, 29.7298

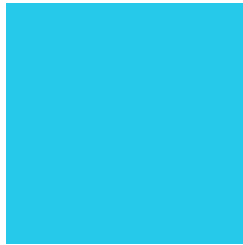


1.9568, 0.9557, 2.4899



# Previews

## White Background



This preview shows how the XYZ color 36.7187, 48.2028, 85.9660 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

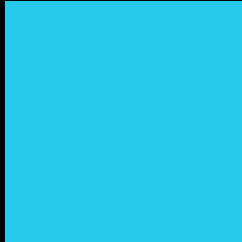
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 36.7187, 48.2028, 85.9660 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 36.7187, 48.2028, 85.9660**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.7187, 48.2028, 85.9660.



This preview shows how white text looks on a background with the XYZ color 36.7187, 48.2028,



# 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

36.7187, 48.2028, 85.9660

### Protanopia

47.0306, 47.2669, 75.0513

### Deuteranopia

48.6270, 47.4798, 89.0397



## Tritanopia

34.5111, 48.3530, 75.2243

# Trichromacy



## Original Color

36.7187, 48.2028, 85.9660



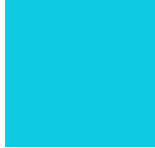
## Protanomaly

40.1681, 45.8174, 78.6781



## Deuteranomaly

41.4419, 46.2771, 87.6371



## Tritanomaly

35.1276, 48.2415, 78.6943

# Monochromacy



## Original Color

36.7187, 48.2028, 85.9660



## Achromatopsia

31.5995, 33.2452, 36.2040



## Achromatomaly

30.3195, 36.5185, 51.3497

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.7187, 48.2028, 85.9660 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(39, 201, 235)` looks like.

```
.text, #text, p{  
    color:rgb(39, 201, 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(39, 201, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(39, 201, 235) }
```

## Border

The CSS property to change the border of an element to XYZ 36.7187, 48.2028, 85.9660 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(39, 201, 235) }
```



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

```
.border{ border-color:rgb(39, 201, 235) }
```

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

Here you see how a box with a 4 pixel `rgb(39, 201, 235)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(39, 201, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(39, 201, 235);  
box-shadow:4px 4px 4px 4px rgb(39, 201,  
235) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.7187, 48.2028, 85.9660 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(39, 201, 235) }
```

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

```
.background{ background-color: rgb(39, 201,  
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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