

# Converting Colors

XYZ(36.5999, 45.1685, 86.4929)

Have a look what the booklet for  
XYZ(36.5999, 45.1685, 86.4929)  
contains.

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# Color

**XYZ(36.5157, 45.0575,  
86.1293)**

# Conversions

## Conversions Part 1

Format	Color
Hex	46C0EC
RGB	70, 192, 236
RGB Percent	27%, 75%, 93%
CMY	0.7255, 0.2470, 0.0745
CMYK	0.70, 0.19, 0.00, 0.07
HSL	196°, 81%, 60%
HSV	196°, 70%, 93%
XYZ	36.5157, 45.0575, 86.1293
YIQ	160.5380, -86.8360, -12.1800

# Conversions

## Conversions Part 2

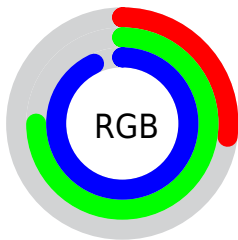
Format	Color
<a href="#">RYB</a>	<a href="#">70, 140, 236</a>
Decimal	<a href="#">4636908</a>
CIELab	<a href="#">72.93, -19.84, -31.64</a>
CIELCh	<a href="#">73, 37.343, 237.916</a>
Yxy	<a href="#">45.0575, 0.2177, 0.2687</a>
Android (android.graphics.Color)	<a href="#">4282826988 (0xFF46C0EC)</a>
YUV	<a href="#">160.5380, 37.2028, -79.4018</a>
Hunter-Lab	<a href="#">67.1249, -20.3652, -29.0888</a>

# Details

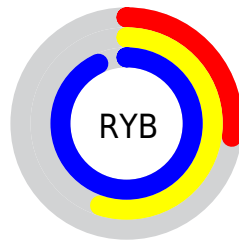
The XYZ color **36.5157, 45.0575, 86.1293** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light muted cyan. A complement of this color would be **41.7165, 30.3119, 9.4481**, and the grayscale version is **33.5260, 35.2720, 38.4112**.

A 20% lighter version of the original color is **62.2422, 80.2897, 106.8247**, and **17.3267, 21.4722, 46.4114** is the 20% darker color. If you saturate the color by 10%, you get **33.7914, 41.6580, 85.6176**, and if you desaturate by 10%, it is **39.9699, 48.9216, 86.6940**.

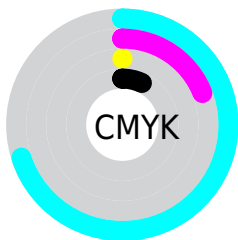
# Distribution



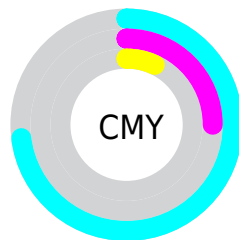
- Red (27%)
- Green (75%)
- Blue (93%)



- Red (27%)
- Yellow (55%)
- Blue (93%)



- Cyan (70%)
- Magenta (19%)
- Yellow (0%)
- Black (7%)



- Cyan (73%)
- Magenta (25%)
- Yellow (7%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.5157, 45.0575, 86.1293 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 36.5157, 45.0575, 86.1293 by changing the saturation by 10% instead.



36.5157, 45.0575,  
86.1293

36.5157, 45.0575,  
86.1293

322.6011,  
367.0064, 535.5992

25.0047, 31.5027,  
64.2194

69.1460, 82.8067,  
143.8380

16.2093, 20.9820,  
46.3811

90.9960, 107.7699,  
180.4740

9.7642, 13.1108,  
32.1958

117.0230,  
137.3047, 222.8556

5.3039, 7.5049,  
21.2450

147.5924,  
171.7955, 271.4016

2.4633, 3.7798,  
13.1103

183.0695,  
211.6266, 326.5304

0.8768, 1.5512,  
7.3729

223.8198,

0.0000, 0.3243,

257.1826, 388.6606

3.6144

270.2085,  
308.8477, 458.2107

■ 0.0000, 0.0000,  
1.4163

■ 0.0000, 0.0000,  
0.1544

■ 36.5157, 45.0575,  
86.1293

■ 36.5157, 45.0575,  
86.1293

■ 33.7914, 41.6580,  
85.6176

■ 39.9699, 48.9216,  
86.6940


■ 31.7083, 38.6737,  
85.1514


■ 44.2201, 53.2831,  
87.3118


■ 30.1696, 36.1145,  
84.7385


■ 49.3298, 58.1763,  
87.9870


■ 55.3544, 63.6310,  
88.7223

 62.3448, 69.6743,  
89.5203

 70.3476, 76.3312,  
90.3835

 79.4065, 83.6252,  
91.3139

 88.1467, 90.8486,  
92.2475

 90.0411, 94.6373,  
92.8790

# Harmonies

## Analogous

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



32.6907, 45.0575, 67.8285



36.5157, 45.0575, 86.1293



42.3723, 45.0575, 94.3081

# Triad

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



36.5157, 45.0575, 86.1293



56.5911, 45.0575, 50.3750



37.2292, 45.0575, 23.7131

# Complementary

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



36.5157, 45.0575, 86.1293



41.7165, 30.3119, 9.4481

# 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.



43.2826, 45.0575, 21.2493



36.5157, 45.0575, 86.1293



54.8650, 45.0575, 34.1186

# Square

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



36.5157, 45.0575, 86.1293



54.3299, 45.0575, 70.6692



49.8239, 45.0575, 24.5250



33.0723, 45.0575, 32.3769



# Rectangle

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



36.5157, 45.0575, 86.1293



46.7926, 45.0575, 91.6822



49.8239, 45.0575, 24.5250



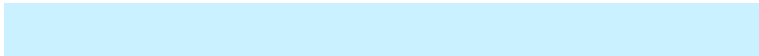
39.0897, 45.0575, 22.2459

# Sweetspot

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



36.5172, 45.0591, 86.1304



73.6564, 82.4956, 106.6489



35.4196, 62.4530, 25.3737



15.2509, 17.2177, 22.7695



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.



36.5172, 45.0591, 86.1304



39.2016, 48.1775, 101.8408



23.4070, 18.8386, 81.7603



15.1603, 16.4070, 19.2901



16.7414, 20.1297, 46.7460



1.3926, 1.7366, 3.6967



# Inverse Universe

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



46.2980, 26.0205, 52.4530



52.2448, 26.9196, 56.0035



55.1023, 57.0834, 13.9100



15.5345, 15.2416, 18.0998



23.3056, 11.5249, 23.2082

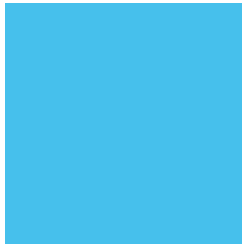


1.8694, 0.9207, 2.0297



# Previews

## White Background



This preview shows how the XYZ color 36.5157, 45.0575, 86.1293 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

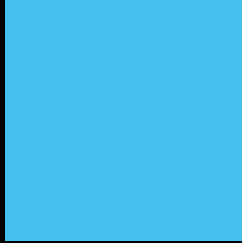
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 36.5157, 45.0575, 86.1293 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 36.5157, 45.0575, 86.1293**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.5157, 45.0575, 86.1293.



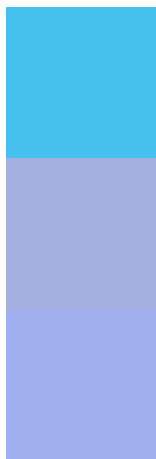
This preview shows how white text looks on a background with the XYZ color 36.5157, 45.0575,



# 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

36.5157, 45.0575, 86.1293

### Protanopia

44.7058, 44.5395, 76.7617

### Deuteranopia

45.5554, 44.4248, 88.6119



## Tritanopia

33.1449, 45.0176, 69.2297

# Trichromacy



**Original Color**

36.5157, 45.0575, 86.1293

**Protanomaly**

40.0916, 43.8826, 79.7559

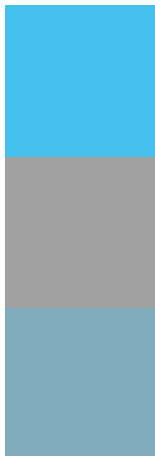
**Deuteranomaly**

40.8563, 43.7918, 87.9607

**Tritanomaly**

34.4297, 45.2113, 75.3186

# Monochromacy



**Original Color**

36.5157, 45.0575, 86.1293

**Achromatopsia**

33.8758, 35.6400, 38.8120

**Achromatomaly**

32.7317, 37.7251, 53.1335

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.5157, 45.0575, 86.1293 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(70, 192, 236)` looks like.

```
.text, #text, p{  
    color:rgb(70, 192, 236)  
}
```

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(70, 192, 236) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 192, 236) }
```

## Border

The CSS property to change the border of an element to XYZ 36.5157, 45.0575, 86.1293 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(70, 192, 236) }
```



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

```
.border{ border-color:rgb(70, 192, 236) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 192, 236)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 192, 236); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 192, 236);  
box-shadow:4px 4px 4px 4px rgb(70, 192,  
236) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.5157, 45.0575, 86.1293 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 192, 236) }
```

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

```
.background{ background-color: rgb(70, 192,  
236) }
```

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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