

# Converting Colors

XYZ(36.5164, 50.5820, 45.2401)

Have a look what the booklet for  
XYZ(36.5164, 50.5820, 45.2401)  
contains.

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# Color

**XYZ(36.4640, 50.3788,  
45.3383)**

# Conversions

## Conversions Part 1

Format	Color
Hex	76CDA9
RGB	118, 205, 169
RGB Percent	46%, 80%, 66%
CMY	0.5372, 0.1961, 0.3372
CMYK	0.42, 0.00, 0.18, 0.20
HSL	155°, 47%, 63%
HSV	155°, 42%, 80%
XYZ	36.4640, 50.3788, 45.3383
YIQ	174.8830, -40.2960, -29.6400

# Conversions

## Conversions Part 2

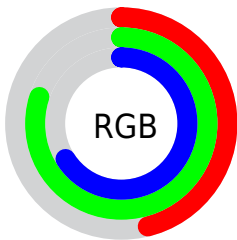
<b>Format</b>	<b>Color</b>
<b>RYB</b>	118, 173, 205
Decimal	7785897
CIELab	76.30, -34.54, 9.79
CIElCh	76, 35.900, 164.171
Yxy	50.3788, 0.2759, 0.3811
Android (android.graphics.Color)	4285975977 (0xFF76CDA9)
YUV	174.8830, -2.9003, -49.8864
Hunter-Lab	70.9780, -32.5096, 11.8122

# Details

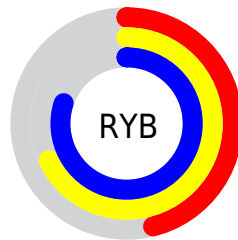
The XYZ color **36.4640, 50.3788, 45.3383** is a light color, and the websafe version is hex **66CC99**. A complement of this color would be **37.4898, 28.2704, 34.0548**, and the grayscale version is **40.7177, 42.8381, 46.6507**.

A 20% lighter version of the original color is **66.6701, 85.9005, 83.5876**, and **16.1671, 24.1538, 20.6397** is the 20% darker color. If you saturate the color by 10%, you get **33.2063, 48.7898, 41.1631**, and if you desaturate by 10%, it is **40.3811, 52.3045, 49.8163**.

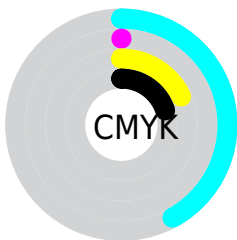
# Distribution



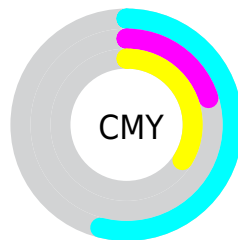
- Red (46%)
- Green (80%)
- Blue (66%)



- Red (46%)
- Yellow (68%)
- Blue (80%)



- Cyan (42%)
- Magenta (0%)
- Yellow (18%)
- Black (20%)



- Cyan (54%)
- Magenta (20%)
- Yellow (34%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.4640, 50.3788, 45.3383 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 36.4640, 50.3788, 45.3383 by changing the saturation by 10% instead.



■ 36.4640, 50.3788,  
45.3383

■ 36.4640, 50.3788,  
45.3383

322.3801,  
388.1454, 384.3420

■ 24.9645, 35.7145,  
31.3791

■ 69.0668, 90.7359,  
84.5517

■ 16.1792, 24.2138,  
20.6268

■ 90.9009, 117.1974,  
110.6429

■ 9.7427, 15.4923,  
12.6629

■ 116.9106,  
148.3601, 141.6152

■ 5.2897, 9.1656,  
7.0688

147.4612,  
184.6084, 177.8871

■ 2.4547, 4.8494,  
3.4261

182.9181,  
226.3267, 219.8772

■ 0.8725, 2.1591,  
1.3161

223.6466,

■ 0.0000, 0.6976,

273.8994, 268.0041

0.0749

270.0122,  
327.7108, 322.6861

■ 0.0000, 0.0000,  
0.0000

■ 36.4640, 50.3788,  
45.3383

■ 36.4640, 50.3788,  
45.3383

■ 33.2063, 48.7898,  
41.1631

■ 40.3811, 52.3045,  
49.8163

■ 30.5633, 47.5105,  
37.2804

■ 44.9905, 54.5796,  
54.6003

■ 28.4911, 46.5197,  
33.6838


■ 50.3277, 57.2237,  
59.6980


■ 26.9378, 45.7908,  
30.3656


■ 56.4245, 60.2531,  
65.1154


■ 25.8413, 45.2918,  
27.3174


■ 63.3108, 63.6831,  
70.8585

 25.2328, 45.0247,  
25.1844

 71.0148, 67.5282,  
76.9332

 77.1293, 70.5473,  
83.2310

 78.3390, 71.0312,  
89.6013

 79.6074, 71.5385,  
96.2804

# Harmonies

## Analogous

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



39.4073, 50.3788, 32.3029



36.4640, 50.3788, 45.3383



36.3831, 50.3788, 64.4536

# Triad

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



36.4640, 50.3788, 45.3383



51.1276, 50.3788, 99.2941



57.7957, 50.3788, 32.8394

# Complementary

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



36.4640, 50.3788, 45.3383



37.4898, 28.2704, 34.0548

# 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.



61.5831, 50.3788, 46.2582



36.4640, 50.3788, 45.3383



57.4956, 50.3788, 86.0219

# Square

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



36.4640, 50.3788, 45.3383



44.4342, 50.3788, 98.8818



61.4684, 50.3788, 65.6158



51.5070, 50.3788, 26.3291



# Rectangle

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



36.4640, 50.3788, 45.3383



37.9397, 50.3788, 78.4583



61.4684, 50.3788, 65.6158



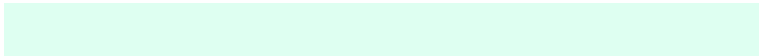
59.4287, 50.3788, 36.5334

# Sweetspot

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



36.4654, 50.3808, 45.3394



81.7576, 93.3937, 97.1579



38.4771, 51.8674, 25.1238



17.0628, 19.7735, 20.3885



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.



36.4654, 50.3808, 45.3394



54.7744, 80.1019, 67.9460



38.6293, 48.5354, 65.0923



11.3392, 12.6454, 13.3438



15.7560, 28.0477, 15.9319



0.8501, 1.4618, 1.0179



# Inverse Universe

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



37.4898, 28.2704, 34.0548



56.6804, 39.1598, 47.0953



35.8137, 29.0190, 20.8540



11.4016, 11.2894, 12.6495



16.7350, 8.5046, 6.3232

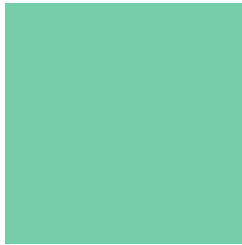


0.9008, 0.4537, 0.5236



# Previews

## White Background



This preview shows how the XYZ color 36.4640, 50.3788, 45.3383 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

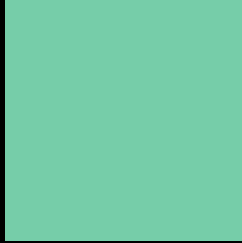
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 36.4640, 50.3788, 45.3383 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

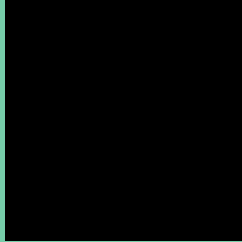
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 36.4640, 50.3788, 45.3383**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.4640, 50.3788, 45.3383.



This preview shows how white text looks on a background with the XYZ color 36.4640, 50.3788,



# 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

36.4640, 50.3788, 45.3383

### Protanopia

47.1414, 49.9490, 40.4142

### Deuteranopia

50.7422, 49.8054, 46.9834



## Tritanopia

41.7424, 50.4203, 71.8220

# Trichromacy



## Original Color

36.4640, 50.3788, 45.3383



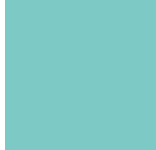
## Protanomaly

42.0511, 49.5527, 41.9986



## Deuteranomaly

43.9913, 49.1526, 46.1985



## Tritanomaly

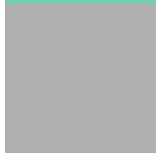
39.5371, 50.2105, 61.0338

# Monochromacy



## Original Color

36.4640, 50.3788, 45.3383



## Achromatopsia

40.7470, 42.8690, 46.6844



## Achromatomaly

38.4282, 45.0050, 46.1966

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.4640, 50.3788, 45.3383 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(118, 205, 169)` looks like.

```
.text, #text, p{  
    color:rgb(118, 205, 169)  
}
```

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(118, 205, 169) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(118, 205, 169) }
```

## Border

The CSS property to change the border of an element to XYZ 36.4640, 50.3788, 45.3383 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(118, 205, 169) }
```



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

```
.border{ border-color:rgb(118, 205, 169) }
```

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

Here you see how a box with a 4 pixel rgb(118, 205, 169) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(118, 205, 169); -webkit-box-  
shadow:4px 4px 4px 4px rgb(118, 205, 169);  
box-shadow:4px 4px 4px 4px rgb(118, 205,  
169) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.4640, 50.3788, 45.3383 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(118, 205, 169) }
```

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

```
.background{ background-color: rgb(118,  
205, 169) }
```

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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