

# Converting Colors

XYZ(32.7964, 45.8617, 38.2661)

Have a look what the booklet for  
XYZ(32.7964, 45.8617, 38.2661)  
contains.

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# Color

**XYZ(32.8221, 45.8765,  
38.1355)**

# Conversions

## Conversions Part 1

Format	Color
Hex	72C59B
RGB	114, 197, 155
RGB Percent	45%, 77%, 61%
CMY	0.5529, 0.2274, 0.3922
CMYK	0.42, 0.00, 0.21, 0.23
HSL	150°, 42%, 61%
HSV	150°, 42%, 77%
XYZ	32.8221, 45.8765, 38.1355
YIQ	167.3950, -35.9860, -30.6580

# Conversions

## Conversions Part 2

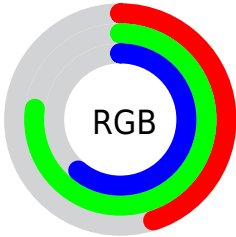
Format	Color
<b>RYB</b>	114, 170, 197
Decimal	7521691
CIELab	73.47, -34.84, 13.27
CIELCh	73, 37.280, 159.145
Yxy	45.8765, 0.2809, 0.3927
Android (android.graphics.Color)	4285711771 (0xFF72C59B)
YUV	167.3950, -6.1107, -46.8274
Hunter-Lab	67.7322, -32.0327, 14.0303

# Details

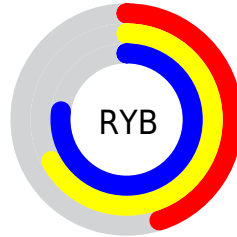
The XYZ color **32.8221, 45.8765, 38.1355** is a light color, and the websafe version is hex **66CC99**. A complement of this color would be **35.0456, 26.3063, 34.6848**, and the grayscale version is **36.9658, 38.8909, 42.3522**.

A 20% lighter version of the original color is **63.4369, 83.9718, 73.8375**, and **14.1248, 21.5742, 16.5165** is the 20% darker color. If you saturate the color by 10%, you get **29.7275, 44.3752, 33.7997**, and if you desaturate by 10%, it is **36.5401, 47.6937, 42.8633**.

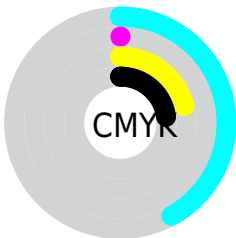
# Distribution



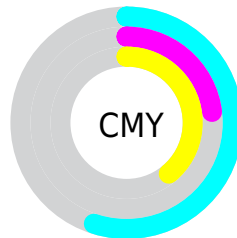
- Red (45%)
- Green (77%)
- Blue (61%)



- Red (45%)
- Yellow (67%)
- Blue (77%)



- Cyan (42%)
- Magenta (0%)
- Yellow (21%)
- Black (23%)



- Cyan (55%)
- Magenta (23%)
- Yellow (39%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 32.8221, 45.8765, 38.1355 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 32.8221, 45.8765, 38.1355 by changing the saturation by 10% instead.



■ 32.8221, 45.8765,  
38.1355

■ 32.8221, 45.8765,  
38.1355

306.5265,  
370.3119, 353.5165

■ 22.1488, 32.1484,  
25.7852

■ 63.4542, 84.0341,  
73.5215

■ 14.0835, 21.4749,  
16.4387

■ 84.1437, 109.2324,  
97.3943

■ 8.2608, 13.4715,  
9.6774

■ 108.9027,  
139.0229, 125.9450

■ 4.3155, 7.7541,  
5.0828

138.0964,  
173.7900, 159.5922

■ 1.8821, 3.9380,  
2.2363

172.0903,  
213.9180, 198.7544

■ 0.5664, 1.6389,  
0.6952

211.2498,

■ 0.0000, 0.3836,

259.7914, 243.8502

0.0000

255.9400,  
311.7946, 295.2980

■ 0.0000, 0.0000,  
0.0000

■ 32.8221, 45.8765,  
38.1355

■ 32.8221, 45.8765,  
38.1355

■ 29.7275, 44.3752,  
33.7997

■ 36.5401, 47.6937,  
42.8633

■ 27.2153, 43.1651,  
29.8424

■ 40.9121, 49.8386,  
47.9901

■ 25.2449, 42.2267,  
26.2537


■ 45.9709, 52.3292,  
53.5263


■ 23.7688, 41.5357,  
23.0219


■ 51.7459, 55.1805,  
59.4812


■ 22.7302, 41.0632,  
20.1347


■ 58.2650, 58.4067,  
65.8638

 22.1394, 40.8031,  
18.0947

 65.5544, 62.0211,  
72.6827

 73.6389, 66.0364,  
79.9461

 76.1671, 67.1782,  
87.3640

 77.6464, 67.7699,  
95.1540

# Harmonies

## Analogous

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



36.0983, 45.8765, 26.7990



32.8221, 45.8765, 38.1355



32.2726, 45.8765, 55.9316

# Triad

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



32.8221, 45.8765, 38.1355



45.6451, 45.8765, 94.9197



54.1657, 45.8765, 30.3991

# Complementary

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



32.8221, 45.8765, 38.1355



35.0456, 26.3063, 34.6848

# 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.



57.3192, 45.8765, 44.4140



32.8221, 45.8765, 38.1355



52.0846, 45.8765, 83.6343

# Square

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



32.8221, 45.8765, 38.1355



39.2553, 45.8765, 92.0156



56.5216, 45.8765, 63.9867



48.2631, 45.8765, 23.1754



# Rectangle

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



32.8221, 45.8765, 38.1355



33.4655, 45.8765, 69.7479



56.5216, 45.8765, 63.9867



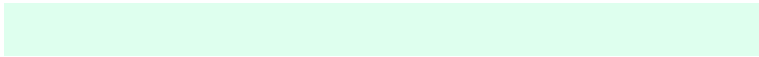
55.6081, 45.8765, 34.3078

# Sweetspot

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



32.8233, 45.8784, 38.1365



81.3040, 93.2122, 94.7688



36.8869, 48.3058, 23.3000



16.9508, 19.7287, 19.7988



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.



32.8233, 45.8784, 38.1365



53.4161, 79.5586, 60.7932



36.8274, 47.4800, 59.2219



10.7122, 11.9738, 12.4347



14.6035, 26.8538, 12.1226



0.7280, 1.2862, 0.7666



# Inverse Universe

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



35.0456, 26.3063, 34.6848



57.9449, 39.6656, 53.7542



32.1612, 25.1526, 19.4960



10.8540, 10.7250, 12.2146



16.6906, 8.4258, 8.8466

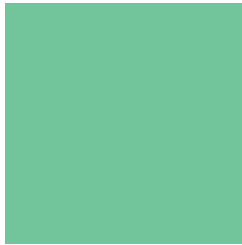


0.8268, 0.4136, 0.6113



# Previews

## White Background



This preview shows how the XYZ color 32.8221, 45.8765, 38.1355 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 32.8221, 45.8765, 38.1355 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

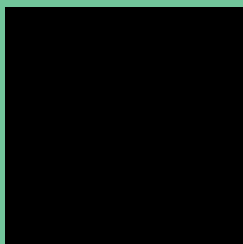
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

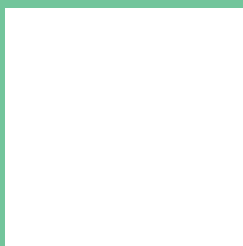
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 32.8221, 45.8765, 38.1355**

## **Background**



This preview shows how black text looks on a background with the XYZ color 32.8221, 45.8765, 38.1355.



This preview shows how white text looks on a background with the XYZ color 32.8221, 45.8765,



# 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

32.8221, 45.8765, 38.1355

### Protanopia

42.5436, 45.2627, 33.6884

### Deuteranopia

46.1906, 45.2626, 39.5598



## **Tritanopia**

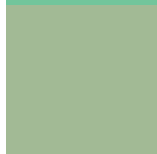
38.0371, 45.6703, 64.5681

# Trichromacy



## Original Color

32.8221, 45.8765, 38.1355



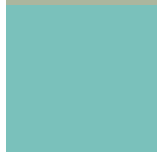
## Protanomaly

37.8840, 44.9691, 35.1170



## Deuteranomaly

39.6941, 44.5824, 38.8609



## Tritanomaly

36.0656, 45.8654, 53.9657

# Monochromacy



## Original Color

32.8221, 45.8765, 38.1355



## Achromatopsia

36.7301, 38.6429, 42.0822



## Achromatomaly

34.7440, 40.7810, 40.6907

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 32.8221, 45.8765, 38.1355 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(114, 197, 155)` looks like.

```
.text, #text, p{  
    color:rgb(114, 197, 155)  
}
```

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(114, 197, 155) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(114, 197, 155) }
```

## Border

The CSS property to change the border of an element to XYZ 32.8221, 45.8765, 38.1355 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(114, 197, 155) }
```



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

```
.border{ border-color:rgb(114, 197, 155) }
```

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

Here you see how a box with a 4 pixel `rgb(114, 197, 155)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(114, 197, 155); -webkit-box-  
shadow:4px 4px 4px 4px rgb(114, 197, 155);  
box-shadow:4px 4px 4px 4px rgb(114, 197,  
155) }
```

# Background

The CSS property to change the background color of an element to XYZ 32.8221, 45.8765, 38.1355 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(114, 197, 155) }
```

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

```
.background{ background-color: rgb(114,  
197, 155) }
```

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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