

# Converting Colors

XYZ(33.0128, 47.7061, 38.5551)

Have a look what the booklet for  
XYZ(33.0128, 47.7061, 38.5551)  
contains.

<b>XYZ(32.9808, 47.6718, 38.4737)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(32.9808, 47.6718,  
38.4737)**

# Conversions

## Conversions Part 1

Format	Color
Hex	6ACA9B
RGB	106, 202, 155
RGB Percent	42%, 79%, 61%
CMY	0.5843, 0.2078, 0.3921
CMYK	0.48, 0.00, 0.23, 0.21
HSL	151°, 48%, 60%
HSV	151°, 48%, 79%
XYZ	32.9808, 47.6718, 38.4737
YIQ	167.9380, -42.1290, -34.9690

# Conversions

## Conversions Part 2

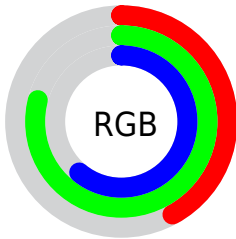
Format	Color
<a href="#">RYB</a>	<a href="#">106, 170, 202</a>
Decimal	<a href="#">6998683</a>
CIELab	<a href="#">74.62, -39.24, 14.84</a>
CIELCh	<a href="#">75, 41.952, 159.280</a>
Yxy	<a href="#">47.6718, 0.2769, 0.4002</a>
Android (android.graphics.Color)	<a href="#">4285188763 (0xFF6ACA9B)</a>
YUV	<a href="#">167.9380, -6.3784, -54.3196</a>
Hunter-Lab	<a href="#">69.0448, -35.5638, 15.2933</a>

# Details

The XYZ color **32.9808, 47.6718, 38.4737** is a light color, and the websafe version is hex **66CC99**. A complement of this color would be **35.2625, 25.1657, 33.1377**, and the grayscale version is **37.2352, 39.1743, 42.6608**.

A 20% lighter version of the original color is **62.2931, 83.8545, 73.8751**, and **14.1513, 22.4953, 16.6929** is the 20% darker color. If you saturate the color by 10%, you get **30.0604, 46.2596, 34.1780**, and if you desaturate by 10%, it is **36.5372, 49.4065, 43.1564**.

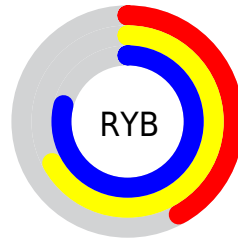
# Distribution



Red (42%)

Green (79%)

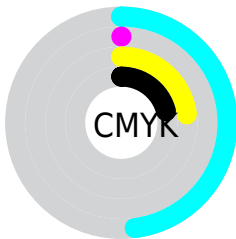
Blue (61%)



Red (42%)

Yellow (67%)

Blue (79%)

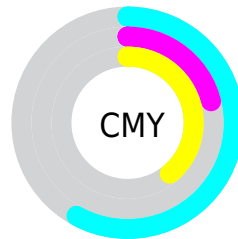


Cyan (48%)

Magenta (0%)

Yellow (23%)

Black (21%)



Cyan (58%)

Magenta (21%)


Yellow (39%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 32.9808, 47.6718, 38.4737 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 32.9808, 47.6718, 38.4737 by changing the saturation by 10% instead.





 32.9808, 47.6718,  
38.4737


 32.9808, 47.6718,  
38.4737


307.2297,  
377.4897, 355.0066


 22.2709, 33.5671,  
26.0459

 63.7004, 86.7155,  
74.0451

 14.1738, 22.5612,  
16.6319


 84.4409, 112.4233,  
98.0257

 8.3242, 14.2698,  
9.8132


 109.2555,  
142.7676, 126.6943

 4.3566, 8.3086,  
5.1713

 138.5098,  
178.1327, 160.4695

 1.9058, 4.2930,  
2.2876

172.5690,  
218.9031, 199.7698

 0.5802, 1.8388,  
0.7243

211.7985,

 0.0000, 0.5112,

265.4631, 245.0137

0.0000

256.5636,  
318.1972, 296.6198

■ 0.0000, 0.0000,  
0.0000

■ 32.9808, 47.6718,  
38.4737

■ 32.9808, 47.6718,  
38.4737

■ 30.0604, 46.2596,  
34.1780

■ 36.5372, 49.4065,  
43.1564

■ 27.7302, 45.1428,  
30.2556

■ 40.7637, 51.4774,  
48.2329

■ 25.9442, 44.2990,  
26.6965


■ 45.6964, 53.9041,  
53.7136


■ 24.6473, 43.7000,  
23.4892


■ 51.3678, 56.7032,  
59.6079


■ 23.7623, 43.3064,  
20.6204


■ 57.8081, 59.8901,  
65.9245

 23.5748, 43.2242,  
19.9598

 65.0458, 63.4795,  
72.6720

 73.1081, 67.4851,  
79.8587

 77.2302, 69.4503,  
87.2685

 78.6923, 70.0352,  
94.9680

# Harmonies

## Analogous

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



36.6815, 47.6718, 25.8015



32.9808, 47.6718, 38.4737



32.3750, 47.6718, 58.9454

# Triad

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



32.9808, 47.6718, 38.4737



47.7060, 47.6718, 105.0744



57.5776, 47.6718, 29.6793

# Complementary

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



32.9808, 47.6718, 38.4737



35.2625, 25.1657, 33.1377

# 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.



61.3009, 47.6718, 45.4515



32.9808, 47.6718, 38.4737



55.1969, 47.6718, 91.4661

# Square

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



32.9808, 47.6718, 38.4737



40.3389, 47.6718, 101.6600



60.3841, 47.6718, 68.1501



50.6749, 47.6718, 21.7974



# Rectangle

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



32.9808, 47.6718, 38.4737



33.7316, 47.6718, 75.1597



60.3841, 47.6718, 68.1501



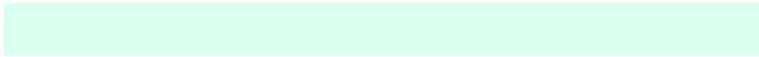
59.2757, 47.6718, 34.0245

# Sweetspot

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



32.9821, 47.6737, 38.4748



80.4261, 92.7716, 94.1886



37.0500, 50.1538, 21.3642



16.7815, 19.6434, 19.7022



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.



32.9821, 47.6737, 38.4748



50.7816, 78.2665, 57.6885



37.7266, 49.5716, 63.4593



11.3030, 12.6309, 13.1530



15.2146, 27.8312, 13.0812



0.8232, 1.4511, 0.8765



# Inverse Universe

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



35.2625, 25.1657, 33.1377



55.0995, 35.6650, 47.5953



32.1140, 23.9063, 16.5581



11.4374, 11.3037, 12.8379



17.1644, 8.6763, 8.5842

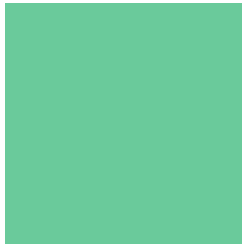


0.9238, 0.4629, 0.6446



# Previews

## White Background



This preview shows how the XYZ color 32.9808, 47.6718, 38.4737 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

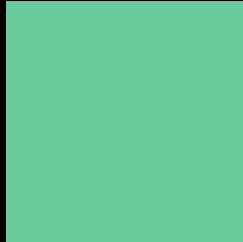
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 32.9808, 47.6718, 38.4737 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

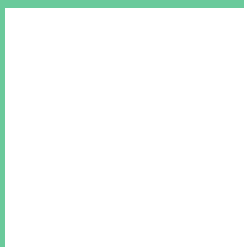
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 32.9808, 47.6718, 38.4737**

## **Background**



This preview shows how black text looks on a background with the XYZ color 32.9808, 47.6718, 38.4737.



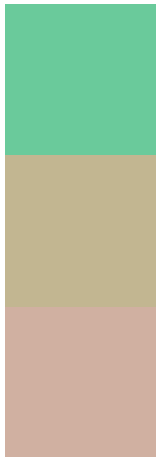
This preview shows how white text looks on a background with the XYZ color 32.9808, 47.6718,



# 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

32.9808, 47.6718, 38.4737

### Protanopia

44.0869, 46.9696, 33.5305

### Deuteranopia

47.9708, 47.0338, 40.2683



## Tritanopia

38.8937, 47.6764, 68.1253

# Trichromacy



## Original Color

32.9808, 47.6718, 38.4737



## Protanomaly

38.5227, 46.2465, 35.3299



## Deuteranomaly

40.4016, 45.8591, 39.5232



## Tritanomaly

36.5586, 47.7507, 56.0052

# Monochromacy



## Original Color

32.9808, 47.6718, 38.4737



## Achromatopsia

37.2190, 39.1572, 42.6422



## Achromatomaly

34.6092, 41.3066, 40.7992

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 32.9808, 47.6718, 38.4737 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(106, 202, 155)` looks like.

```
.text, #text, p{  
    color:rgb(106, 202, 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(106, 202, 155) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(106, 202, 155) }
```

## Border

The CSS property to change the border of an element to XYZ 32.9808, 47.6718, 38.4737 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(106, 202, 155) }
```



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

```
.border{ border-color:rgb(106, 202, 155) }
```

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

Here you see how a box with a 4 pixel `rgb(106, 202, 155)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(106, 202, 155); -webkit-box-  
shadow:4px 4px 4px 4px rgb(106, 202, 155);  
box-shadow:4px 4px 4px 4px rgb(106, 202,  
155) }
```

# Background

The CSS property to change the background color of an element to XYZ 32.9808, 47.6718, 38.4737 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(106, 202, 155) }
```

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

```
.background{ background-color: rgb(106,  
202, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor