

# Converting Colors

XYZ(40.2130, 50.6466, 24.4223)

Have a look what the booklet for  
XYZ(40.2130, 50.6466, 24.4223)  
contains.

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# Color

**XYZ(40.2119, 50.6772,  
24.4919)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AAC775
RGB	170, 199, 117
RGB Percent	67%, 78%, 46%
CMY	0.3333, 0.2196, 0.5412
CMYK	0.15, 0.00, 0.41, 0.22
HSL	81°, 42%, 62%
HSV	81°, 41%, 78%
XYZ	40.2119, 50.6772, 24.4919
YIQ	180.9810, 9.0380, -31.6500

# Conversions

## Conversions Part 2

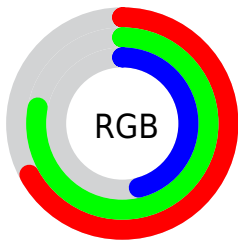
Format	Color
<b>RYB</b>	117, 199, 146
Decimal	11192181
CIELab	76.48, -23.28, 37.82
CIELCh	76, 44.411, 121.613
Yxy	50.6772, 0.3485, 0.4392
Android (android.graphics.Color)	4289382261 (0xFFAAC775)
YUV	180.9810, -31.5426, -9.6303
Hunter-Lab	71.1879, -23.7496, 29.4331

# Details

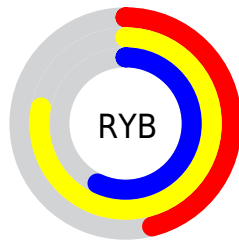
The XYZ color **40.2119, 50.6772, 24.4919** is a light color, and the websafe version is hex **99CC66**. A complement of this color would be **28.5261, 22.9584, 56.9635**, and the grayscale version is **44.0736, 46.3688, 50.4957**.

A 20% lighter version of the original color is **74.3797, 90.5910, 51.5958**, and **18.3410, 24.3690, 9.0472** is the 20% darker color. If you saturate the color by 10%, you get **37.6833, 49.4964, 18.9018**, and if you desaturate by 10%, it is **43.0732, 52.0040, 31.3979**.

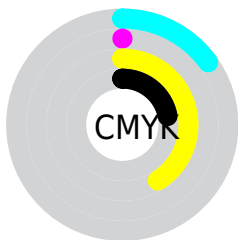
# Distribution



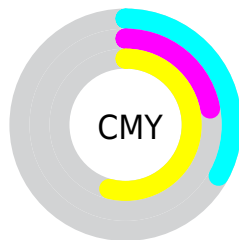
- Red (67%)
- Green (78%)
- Blue (46%)



- Red (46%)
- Yellow (78%)
- Blue (57%)



- Cyan (15%)
- Magenta (0%)
- Yellow (41%)
- Black (22%)



- Cyan (33%)
- Magenta (22%)
- Yellow (54%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.2119, 50.6772, 24.4919 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 40.2119, 50.6772, 24.4919 by changing the saturation by 10% instead.



■ 40.2119, 50.6772,  
24.4919

■ 40.2119, 50.6772,  
24.4919

338.1350,  
389.3083, 288.6643

■ 27.8887, 35.9518,  
15.4833

■ 74.7684, 91.1774,  
51.7856

■ 18.3818, 24.3970,  
9.0089

■ 97.7324, 117.7210,  
70.9078

■ 11.3258, 15.6283,  
4.6501

■ 124.9741,  
148.9728, 94.2383

■ 6.3553, 9.2615,  
1.9884

156.8588,  
185.3172, 122.1957

■ 3.1050, 4.9122,  
0.5481

193.7519,  
227.1385, 155.1984

■ 1.2095, 2.1958,  
0.0000

236.0187,

■ 0.1139, 0.7177,

274.8212, 193.6650

0.0000

284.0246,  
328.7497, 238.0141

■ 0.0000, 0.0000,  
0.0000

■ 40.2119, 50.6772,  
24.4919

■ 40.2119, 50.6772,  
24.4919

■ 37.6833, 49.4964,  
18.9018

■ 43.0732, 52.0040,  
31.3979

■ 35.4665, 48.4478,  
14.5406

■ 46.2793, 53.4765,  
39.6931

■ 33.5438, 47.5260,  
11.3159


■ 49.8460, 55.1030,  
49.4490


■ 31.8935, 46.7222,  
9.1207


■ 53.7869, 56.8889,  
60.7316


■ 30.4902, 46.0259,  
7.8279


■ 58.1150, 58.8397,  
73.6025

 29.4196, 45.4861,  
7.2291

 62.8423, 60.9603,  
88.1201

 67.7697, 63.1712,  
103.2292

 69.9360, 64.2879,  
103.3305

 72.1929, 65.4514,  
103.4362

# Harmonies

## Analogous

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



47.7155, 50.6772, 20.7323



40.2119, 50.6772, 24.4919



35.3472, 50.6772, 36.0336

# Triad

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



40.2119, 50.6772, 24.4919



40.9117, 50.6772, 106.4903



66.1179, 50.6772, 53.8915

# Complementary

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



40.2119, 50.6772, 24.4919



28.5261, 22.9584, 56.9635

# 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.



63.7634, 50.6772, 80.1292



40.2119, 50.6772, 24.4919



48.6216, 50.6772, 115.2873

# Square

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



40.2119, 50.6772, 24.4919



35.7170, 50.6772, 83.0458



57.1080, 50.6772, 104.4916



63.2187, 50.6772, 34.3683



# Rectangle

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



40.2119, 50.6772, 24.4919



33.9316, 50.6772, 48.7233



57.1080, 50.6772, 104.4916



65.9134, 50.6772, 62.1808

# Sweetspot

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



40.2132, 50.6794, 24.4930



86.6385, 96.1883, 84.8056



36.9986, 33.8935, 21.4224



18.3609, 20.5048, 17.6422



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.



40.2132, 50.6794, 24.4930



66.6009, 86.9532, 34.4101



32.7348, 46.8242, 24.1430



11.1458, 12.2221, 11.3344



19.0146, 29.2977, 4.6528



0.9769, 1.4267, 0.2239



# Inverse Universe

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



28.5261, 22.9584, 56.9635



43.5494, 32.2254, 98.5326



37.0921, 27.3744, 57.3644



10.4047, 10.4669, 13.3894



8.3577, 3.5428, 34.9877



0.4744, 0.2083, 1.6603



# Previews

## White Background



This preview shows how the XYZ color 40.2119, 50.6772, 24.4919 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 40.2119, 50.6772, 24.4919 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 40.2119, 50.6772, 24.4919**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.2119, 50.6772, 24.4919.



This preview shows how white text looks on a background with the XYZ color 40.2119, 50.6772,



# 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

40.2119, 50.6772, 24.4919

### Protanopia

46.4175, 50.2805, 22.8814

### Deuteranopia

51.4510, 50.3539, 25.0967



## Tritanopia

48.3881, 50.6999, 64.3625

# Trichromacy



## Original Color

40.2119, 50.6772, 24.4919

## Protanomaly

43.8792, 50.2516, 23.3064

## Deuteranomaly

46.6141, 50.0185, 24.9670

## Tritanomaly

44.8765, 50.5835, 46.4281

# Monochromacy



## Original Color

40.2119, 50.6772, 24.4919

## Achromatopsia

43.9204, 46.2077, 50.3202

## Achromatomaly

42.2862, 47.7822, 39.3419

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.2119, 50.6772, 24.4919 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(170, 199, 117)` looks like.

```
.text, #text, p{  
    color:rgb(170, 199, 117)  
}
```

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(170, 199, 117) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 199, 117) }
```

## Border

The CSS property to change the border of an element to XYZ 40.2119, 50.6772, 24.4919 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(170, 199, 117) }
```



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

```
.border{ border-color:rgb(170, 199, 117) }
```

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

Here you see how a box with a 4 pixel `rgb(170, 199, 117)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(170, 199, 117); -webkit-box-  
shadow:4px 4px 4px 4px rgb(170, 199, 117);  
box-shadow:4px 4px 4px 4px rgb(170, 199,  
117) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.2119, 50.6772, 24.4919 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 199, 117) }
```

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

```
.background{ background-color: rgb(170,  
199, 117) }
```

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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