

# Converting Colors

XYZ(22.5822, 32.9789, 18.1145)

Have a look what the booklet for  
XYZ(22.5822, 32.9789, 18.1145)  
contains.

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# Color

**XYZ(22.6046, 32.9887,  
18.0080)**

# Conversions

## Conversions Part 1

Format	Color
Hex	67AB67
RGB	103, 171, 103
RGB Percent	40%, 67%, 40%
CMY	0.5961, 0.3294, 0.5961
CMYK	0.40, 0.00, 0.40, 0.33
HSL	120°, 29%, 54%
HSV	120°, 40%, 67%
XYZ	22.6046, 32.9887, 18.0080
YIQ	142.9160, -18.7000, -35.5640

# Conversions

## Conversions Part 2

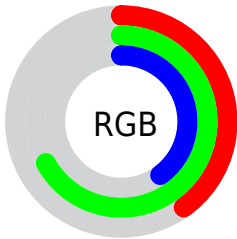
<b>Format</b>	<b>Color</b>
<b>RYB</b>	103, 171, 171
Decimal	6794087
CIELab	64.15, -35.70, 28.41
CIElCh	64, 45.625, 141.487
Yxy	32.9887, 0.3071, 0.4482
Android (android.graphics.Color)	4284984167 (0xFF67AB67)
YUV	142.9160, -19.6786, -35.0063
Hunter-Lab	57.4358, -30.2616, 21.6157

# Details

The XYZ color **22.6046, 32.9887, 18.0080** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **28.9966, 21.2993, 41.1121**, and the grayscale version is **26.1570, 27.5192, 29.9684**.

A 20% lighter version of the original color is **47.2901, 64.4728, 40.9624**, and **8.4834, 13.9108, 5.8524** is the 20% darker color. If you saturate the color by 10%, you get **20.0679, 31.7712, 13.8581**, and if you desaturate by 10%, it is **25.7197, 34.4860, 23.1026**.

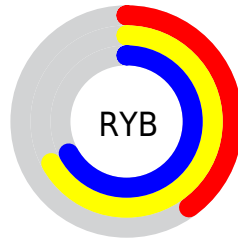
# Distribution



Red (40%)

Green (67%)

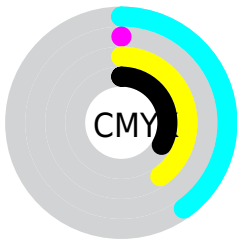
Blue (40%)



Red (40%)

Yellow (67%)

Blue (67%)

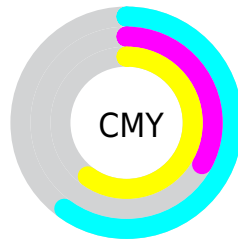


Cyan (40%)

Magenta (0%)

Yellow (40%)

Black (33%)



Cyan (60%)

Magenta (33%)

Yellow (60%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 22.6046, 32.9887, 18.0080 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 22.6046, 32.9887, 18.0080 by changing the saturation by 10% instead.



■ 22.6046, 32.9887,  
18.0080

■ 22.6046, 32.9887,  
18.0080

258.2610,  
315.5988, 253.1538

■ 14.4209, 22.1178,  
10.7862

■ 47.2147, 64.3579,  
40.8651

■ 8.4976, 13.9435,  
5.8109

■ 64.3718, 85.6250,  
57.3375

■ 4.4695, 8.0814,  
2.6635

■ 85.2508, 111.1262,  
77.7305

■ 1.9710, 4.1471,  
0.9250

■ 110.2170,  
141.2460, 102.4627

■ 0.6176, 1.7562,  
0.0000

139.6358,  
176.3688, 131.9525

■ 0.0000, 0.4596,  
0.0000

173.8725,

■ 0.0000, 0.0000,

216.8789, 166.6186

0.0000

213.2924,  
263.1608, 206.8795

■ 22.6046, 32.9887,  
18.0080

■ 22.6046, 32.9887,  
18.0080

■ 20.0679, 31.7712,  
13.8581

■ 25.7197, 34.4860,  
23.1026

■ 18.0717, 30.8123,  
10.5929

■ 29.4430, 36.2745,  
29.1928

■ 16.5775, 30.0946,  
8.1488


■ 33.8054, 38.3700,  
36.3282


■ 15.5407, 29.5965,  
6.4529


■ 38.8349, 40.7859,  
44.5549


■ 14.9089, 29.2931,  
5.4195


■ 44.5579, 43.5350,  
53.9157


 14.5708, 29.1306,  
4.8664

 50.9993, 46.6291,  
64.4516

 14.5636, 29.1272,  
4.8546

 58.1827, 50.0797,  
76.2013

 66.1308, 53.8976,  
89.2017

 73.8536, 57.6072,  
101.8345

# Harmonies

## Analogous

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



27.0212, 32.9887, 11.9435



22.6046, 32.9887, 18.0080



20.6041, 32.9887, 30.9055

# Triad

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



22.6046, 32.9887, 18.0080



29.5515, 32.9887, 83.8422



44.3923, 32.9887, 24.4003

# Complementary

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



22.6046, 32.9887, 18.0080



28.9966, 21.2993, 41.1121

# 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.



45.3146, 32.9887, 41.4475



22.6046, 32.9887, 18.0080



36.1285, 32.9887, 80.2344

# Square

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



22.6046, 32.9887, 18.0080



24.2381, 32.9887, 71.5669



42.1137, 32.9887, 62.9390



39.7437, 32.9887, 14.6539



# Rectangle

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



22.6046, 32.9887, 18.0080



20.6888, 32.9887, 43.4797



42.1137, 32.9887, 62.9390



45.1717, 32.9887, 29.2900

# Sweetspot

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



22.6054, 32.9901, 18.0087



58.5223, 67.7459, 61.7572



33.8072, 38.7648, 18.5326



12.8261, 14.9997, 13.4048



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



22.6054, 32.9901, 18.0087



36.3149, 57.0785, 25.4330



24.6727, 33.8170, 28.8946



7.9045, 8.9394, 8.5223



10.9783, 21.9566, 3.6595



0.3054, 0.6108, 0.1018



# Inverse Universe

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



28.9966, 21.2993, 41.1121



49.4148, 33.1159, 72.7879



26.1612, 20.1651, 26.1811



8.3371, 8.1481, 10.0860



18.2017, 8.7432, 29.7715



0.5064, 0.2432, 0.8282



# Previews

## White Background



This preview shows how the XYZ color 22.6046, 32.9887, 18.0080 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 22.6046, 32.9887, 18.0080 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 22.6046, 32.9887, 18.0080**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.6046, 32.9887, 18.0080.



This preview shows how white text looks on a background with the XYZ color 22.6046, 32.9887,



# 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

22.6046, 32.9887, 18.0080

### Protanopia

30.2412, 32.7408, 16.0350

### Deuteranopia

33.0638, 32.4529, 18.7087



## **Tritanopia**

27.9943, 32.7177, 45.3971

# Trichromacy



## Original Color

22.6046, 32.9887, 18.0080

## Protanomaly

26.6741, 32.4103, 16.6543

## Deuteranomaly

28.0076, 31.7861, 18.2948

## Tritanomaly

25.5620, 32.5249, 33.3644

# Monochromacy



## Original Color

22.6046, 32.9887, 18.0080

## Achromatopsia

26.1081, 27.4677, 29.9124

## Achromatomaly

24.1896, 28.9302, 24.7312

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.6046, 32.9887, 18.0080 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(103, 171, 103)` looks like.

```
.text, #text, p{  
    color:rgb(103, 171, 103)  
}
```

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(103, 171, 103) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 171, 103) }
```

## Border

The CSS property to change the border of an element to XYZ 22.6046, 32.9887, 18.0080 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(103, 171, 103) }
```



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

```
.border{ border-color:rgb(103, 171, 103) }
```

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

Here you see how a box with a 4 pixel rgb(103, 171, 103) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 171, 103); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 171, 103);  
box-shadow:4px 4px 4px 4px rgb(103, 171,  
103) }
```

# Background

The CSS property to change the background color of an element to XYZ 22.6046, 32.9887, 18.0080 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 171, 103) }
```

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

```
.background{ background-color: rgb(103,  
171, 103) }
```

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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