

# Converting Colors

XYZ(28.9814, 37.5973, 19.5645)

Have a look what the booklet for  
XYZ(28.9814, 37.5973, 19.5645)  
contains.

<b>XYZ(28.9944, 37.6877, 19.6562)</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(28.9944, 37.6877,  
19.6562)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	8CB06B
RGB	140, 176, 107
RGB Percent	55%, 69%, 42%
CMY	0.4510, 0.3098, 0.5804
CMYK	0.20, 0.00, 0.39, 0.31
HSL	91°, 30%, 55%
HSV	91°, 39%, 69%
XYZ	28.9944, 37.6877, 19.6562
YIQ	157.3700, 0.6930, -29.0910

# Conversions

## Conversions Part 2

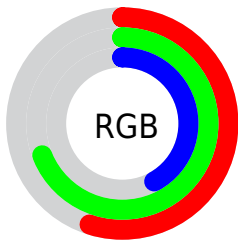
<b>Format</b>	<b>Color</b>
<b>RYB</b>	107, 176, 143
Decimal	9220203
CIELab	67.79, -24.58, 31.43
CIElCh	68, 39.899, 128.024
Yxy	37.6877, 0.3358, 0.4365
Android (android.graphics.Color)	4287410283 (0xFF8CB06B)
YUV	157.3700, -24.8324, -15.2335
Hunter-Lab	61.3903, -23.1282, 23.9895

# Details

The XYZ color **28.9944, 37.6877, 19.6562** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **24.4235, 19.4907, 43.5513**, and the grayscale version is **32.3236, 34.0070, 37.0336**.

A 20% lighter version of the original color is **57.6203, 71.8185, 43.6263**, and **11.8712, 16.5461, 6.5710** is the 20% darker color. If you saturate the color by 10%, you get **26.6779, 36.5910, 15.1965**, and if you desaturate by 10%, it is **31.6304, 38.9297, 25.1162**.

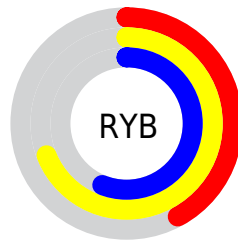
# Distribution



Red (55%)

Green (69%)

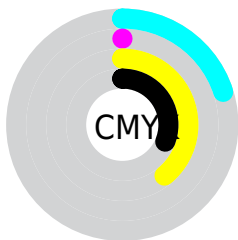
Blue (42%)



Red (42%)

Yellow (69%)

Blue (56%)

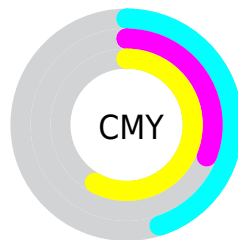


Cyan (20%)

Magenta (0%)

Yellow (39%)

Black (31%)



Cyan (45%)

Magenta (31%)


Yellow (58%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 28.9944, 37.6877, 19.6562 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 28.9944, 37.6877, 19.6562 by changing the saturation by 10% instead.





 28.9944, 37.6877,  
19.6562


 28.9944, 37.6877,  
19.6562


289.1832,  
336.2784, 262.5902

 19.2208, 25.7404,  
11.9638


 57.4658, 71.6292,  
43.6914


 11.9349, 16.6295,  
6.5968


 76.8944, 94.3922,  
60.8712

 6.7713, 9.9707,  
3.1366


 100.2720,  
121.5292, 82.0507

 3.3645, 5.3795,  
1.1648

 127.9640,  
153.4246, 107.6482

 1.3493, 2.4716,  
0.0000

160.3358,  
190.4629, 138.0824

 0.2197, 0.8624,  
0.0000

197.7527,

 0.0000, 0.0000,

233.0283, 173.7717

0.0000

240.5800,  
281.5054, 215.1348

■ 28.9944, 37.6877,  
19.6562

■ 28.9944, 37.6877,  
19.6562

■ 26.6779, 36.5910,  
15.1965

■ 31.6304, 38.9297,  
25.1162

■ 24.6635, 35.6284,  
11.6740

■ 34.5968, 40.3178,  
31.6298

■ 22.9362, 34.7948,  
9.0220


■ 37.9071, 41.8591,  
39.2492


■ 21.4779, 34.0827,  
7.1642


■ 41.5733, 43.5587,  
48.0227


■ 20.2682, 33.4834,  
6.0108


■ 45.6067, 45.4214,  
57.9956


 19.2710, 32.9819,  
5.3907

 50.0181, 47.4520,  
69.2108

 19.1974, 32.9449,  
5.3472

 54.8179, 49.6547,  
81.7089

 60.0159, 52.0338,  
95.5290

 63.9005, 53.9051,  
101.6445

# Harmonies

## Analogous

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



34.1893, 37.6877, 15.7361



28.9944, 37.6877, 19.6562



25.9010, 37.6877, 29.5815

# Triad

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



28.9944, 37.6877, 19.6562



31.5594, 37.6877, 81.3303



48.9097, 37.6877, 36.4702

# Complementary

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



28.9944, 37.6877, 19.6562



24.4235, 19.4907, 43.5513

# 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.



47.9968, 37.6877, 55.1196



28.9944, 37.6877, 19.6562



37.5039, 37.6877, 84.7500

# Square

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



28.9944, 37.6877, 19.6562



27.2591, 37.6877, 65.7446



43.6430, 37.6877, 74.0695



46.0107, 37.6877, 23.4527



# Rectangle

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



28.9944, 37.6877, 19.6562



25.2179, 37.6877, 39.8741



43.6430, 37.6877, 74.0695



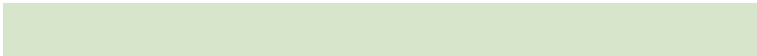
49.0441, 37.6877, 42.2192

# Sweetspot

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



28.9953, 37.6893, 19.6570



66.8764, 75.0449, 66.8126



30.3298, 29.8331, 18.0703



14.3270, 16.1861, 14.0947



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832



# Same Dimension

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



28.9953, 37.6893, 19.6570



48.9300, 66.6210, 28.5743



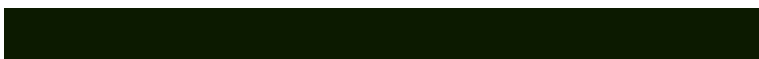
24.3047, 35.2642, 19.7555



8.7627, 9.6827, 9.0596



14.1516, 24.2055, 3.9263



0.5128, 0.7964, 0.1267



# Inverse Universe

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



24.4235, 19.4907, 43.5513



39.4686, 28.9699, 78.0068



30.8869, 22.8358, 43.2622



8.4509, 8.4410, 10.6902



9.0439, 3.9981, 30.4320



0.3514, 0.1603, 0.9606



# Previews

## White Background



This preview shows how the XYZ color 28.9944, 37.6877, 19.6562 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 28.9944, 37.6877, 19.6562 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

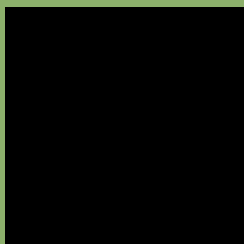
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 28.9944, 37.6877, 19.6562**

## **Background**



This preview shows how black text looks on a background with the XYZ color 28.9944, 37.6877, 19.6562.



This preview shows how white text looks on a background with the XYZ color 28.9944, 37.6877,



# 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

28.9944, 37.6877, 19.6562

### Protanopia

34.7257, 37.5928, 18.2579

### Deuteranopia

38.1221, 37.4717, 20.2624



## Tritanopia

34.9217, 37.5529, 49.1239

# Trichromacy



## Original Color

28.9944, 37.6877, 19.6562

## Protanomaly

32.2037, 37.3747, 18.6134

## Deuteranomaly

34.1741, 37.2662, 20.1438

## Tritanomaly

32.2401, 37.2856, 36.0695

# Monochromacy



## Original Color

28.9944, 37.6877, 19.6562

## Achromatopsia

32.0474, 33.7164, 36.7171

## Achromatomaly

30.6982, 34.9943, 29.5627

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 28.9944, 37.6877, 19.6562 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(140, 176, 107)` looks like.

```
.text, #text, p{  
    color:rgb(140, 176, 107)  
}
```

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(140, 176, 107) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(140, 176, 107) }
```

## Border

The CSS property to change the border of an element to XYZ 28.9944, 37.6877, 19.6562 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(140, 176, 107) }
```



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

```
.border{ border-color:rgb(140, 176, 107) }
```

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

Here you see how a box with a 4 pixel rgb(140, 176, 107) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(140, 176, 107); -webkit-box-  
shadow:4px 4px 4px 4px rgb(140, 176, 107);  
box-shadow:4px 4px 4px 4px rgb(140, 176,  
107) }
```

# Background

The CSS property to change the background color of an element to XYZ 28.9944, 37.6877, 19.6562 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(140, 176, 107) }
```

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

```
.background{ background-color: rgb(140,  
176, 107) }
```

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