

# Converting Colors

XYZ(30.4574, 37.2885, 7.1235)

Have a look what the booklet for  
XYZ(30.4574, 37.2885, 7.1235)  
contains.

<b>XYZ(30.3687, 37.2406, 7.1009)</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(30.3687, 37.2406,  
7.1009)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A5AB22
RGB	165, 171, 34
RGB Percent	65%, 67%, 13%
CMY	0.3529, 0.3294, 0.8666
CMYK	0.04, 0.00, 0.80, 0.33
HSL	63°, 67%, 40%
HSV	63°, 80%, 67%
XYZ	30.3687, 37.2406, 7.1009
YIQ	153.5880, 40.4010, -43.8790

# Conversions

## Conversions Part 2

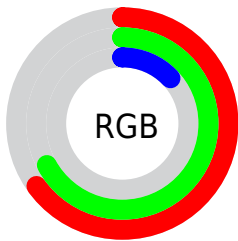
Format	Color
<a href="#">RYB</a>	<a href="#">34, 171, 40</a>
Decimal	<a href="#">10857250</a>
CIELab	<a href="#">67.46, -17.91, 63.39</a>
CIELCh	<a href="#">67, 65.869, 105.775</a>
Yxy	<a href="#">37.2406, 0.4065, 0.4985</a>
Android (android.graphics.Color)	<a href="#">4289047330</a> ( <a href="#">0xFFA5AB22</a> )
YUV	<a href="#">153.5880, -58.9569, 10.0083</a>
Hunter-Lab	<a href="#">61.0251, -17.9646, 35.8185</a>

# Details

The XYZ color **30.3687, 37.2406, 7.1009** is a dark color, and the websafe version is hex **999900**. A complement of this color would be **8.7988, 4.5362, 38.9421**, and the grayscale version is **30.7732, 32.3758, 35.2573**.

A 20% lighter version of the original color is **59.5595, 70.8534, 20.6622**, and **12.9035, 16.4449, 2.4941** is the 20% darker color. If you saturate the color by 10%, you get **30.0257, 37.0868, 6.1024**, and if you desaturate by 10%, it is **30.8370, 37.4474, 8.7471**.

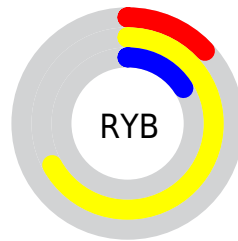
# Distribution



Red (65%)

Green (67%)

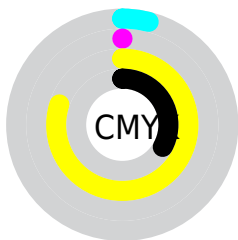
Blue (13%)



Red (13%)

Yellow (67%)

Blue (16%)

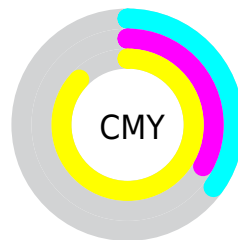


Cyan (4%)

Magenta (0%)

Yellow (80%)

Black (33%)



Cyan (35%)

Magenta (33%)


Yellow (87%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 30.3687, 37.2406, 7.1009 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 30.3687, 37.2406, 7.1009 by changing the saturation by 10% instead.





 30.3687, 37.2406,  
7.1009


 30.3687, 37.2406,  
7.1009

295.4984,  
334.3510, 178.1621

 20.2681, 25.3938,  
3.4459


 59.6274, 70.9427,  
20.6922


 12.6995, 16.3707,  
1.3266


 79.5162, 93.5668,  
31.4656

 7.2975, 9.7869,  
0.0834


 103.3984,  
120.5521, 45.4489

 3.6968, 5.2579,  
0.0000

 131.6394,  
152.2830, 63.0605

 1.5321, 2.3993,  
0.0000

 164.6045,  
189.1440, 84.7192

 0.3475, 0.8256,  
0.0000

 202.6592,

 0.0000, 0.0000,

231.5194, 110.8433

0.0000

246.1687,  
279.7936, 141.8514

■ 30.3687, 37.2406,  
7.1009

■ 30.3687, 37.2406,  
7.1009

■ 30.0257, 37.0868,  
6.1024

■ 30.8370, 37.4474,  
8.7471

■ 29.7725, 36.9679,  
5.5663

■ 31.4441, 37.7084,  
11.1232

■ 32.2045, 38.0308,  
14.3018

■ 33.1303, 38.4195,  
18.3462

■ 34.2322, 38.8787,  
23.3133

■ 35.5201, 39.4125,  
29.2552

■ 37.0032, 40.0244,  
36.2202

■ 38.6900, 40.7180,  
44.2531

■ 40.5886, 41.4963,  
53.3964

# Harmonies

## Analogous

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



40.3921, 37.2406, 6.9795



30.3687, 37.2406, 7.1009



23.2107, 37.2406, 12.7903

# Triad

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



30.3687, 37.2406, 7.1009



23.4927, 37.2406, 94.9758



57.7871, 37.2406, 55.8289

# Complementary

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



30.3687, 37.2406, 7.1009



8.7988, 4.5362, 38.9421

# 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.



51.2381, 37.2406, 93.1085



30.3687, 37.2406, 7.1009



30.8300, 37.2406, 122.0221

# Square

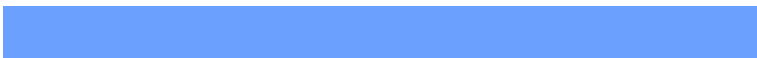
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



30.3687, 37.2406, 7.1009



19.7881, 37.2406, 57.6501



40.9497, 37.2406, 121.2108



57.5984, 37.2406, 27.2155



# Rectangle

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



30.3687, 37.2406, 7.1009



20.4604, 37.2406, 21.7229



40.9497, 37.2406, 121.2108



56.2535, 37.2406, 67.9577

# Sweetspot

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



30.3696, 37.2423, 7.1017



62.5749, 70.1530, 47.5853



17.7959, 10.1971, 2.5441



13.7789, 15.5716, 9.8035



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.



30.3696, 37.2423, 7.1017



53.4302, 66.2561, 10.2275



19.8829, 31.8363, 6.6109



8.6275, 9.3121, 8.5561



22.4547, 27.8729, 4.1965



0.6350, 0.7807, 0.1172



# Inverse Universe

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



8.7988, 4.5362, 38.9421



13.5144, 5.5891, 69.3684



13.9954, 7.2151, 39.1853



7.6102, 7.7733, 10.0520



5.6239, 2.2591, 29.1841



0.1667, 0.0682, 0.8124



# Previews

## White Background



This preview shows how the XYZ color 30.3687, 37.2406, 7.1009 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 30.3687, 37.2406, 7.1009 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 30.3687, 37.2406, 7.1009**

## **Background**



This preview shows how black text looks on a background with the XYZ color 30.3687, 37.2406, 7.1009.



This preview shows how white text looks on a background with the XYZ color 30.3687, 37.2406,



# 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

30.3687, 37.2406, 7.1009

### Protanopia

33.7234, 37.3288, 6.7943

### Deuteranopia

37.7600, 37.0659, 7.3548



## Tritanopia

37.7490, 37.0049, 44.1828

# Trichromacy



## Original Color

30.3687, 37.2406, 7.1009

## Protanomaly

32.4533, 37.2122, 6.9110

## Deuteranomaly

34.5969, 36.7126, 7.1822

## Tritanomaly

33.6233, 36.3702, 23.6604

# Monochromacy



## Original Color

30.3687, 37.2406, 7.1009

## Achromatopsia

30.7148, 32.3143, 35.1903

## Achromatomaly

29.4858, 33.5365, 19.6710

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 30.3687, 37.2406, 7.1009 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(165, 171, 34)` looks like.

```
.text, #text, p{  
    color:rgb(165, 171, 34)  
}
```

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(165, 171, 34) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(165, 171, 34) }
```

## Border

The CSS property to change the border of an element to XYZ 30.3687, 37.2406, 7.1009 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(165, 171, 34) }
```



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

```
.border{ border-color:rgb(165, 171, 34) }
```

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

Here you see how a box with a 4 pixel `rgb(165, 171, 34)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(165, 171, 34); -webkit-box-  
shadow:4px 4px 4px 4px rgb(165, 171, 34);  
box-shadow:4px 4px 4px 4px rgb(165, 171,  
34) }
```

# Background

The CSS property to change the background color of an element to XYZ 30.3687, 37.2406, 7.1009 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(165, 171, 34) }
```

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

```
.background{ background-color: rgb(165,  
171, 34) }
```

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