

# Converting Colors

XYZ(37.4555, 42.9223, 6.3107)

Have a look what the booklet for  
XYZ(37.4555, 42.9223, 6.3107)  
contains.

<b>XYZ(37.4063, 42.9172, 6.3123)</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(37.4063, 42.9172,  
6.3123)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BFB200
RGB	191, 178, 0
RGB Percent	75%, 70%, 0%
CMY	0.2510, 0.3019, 0.9999
CMYK	0.00, 0.07, 1.00, 0.25
HSL	56°, 100%, 37%
HSV	56°, 100%, 75%
XYZ	37.4063, 42.9172, 6.3123
YIQ	161.5950, 64.8860, -52.6020

# Conversions

## Conversions Part 2

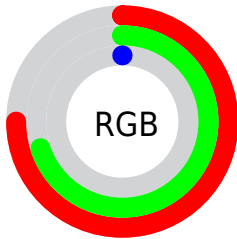
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	14, 191, 0
Decimal	12562944
CIE Lab	71.50, -10.74, 73.45
CIE LCh	71, 74.235, 98.315
Yxy	42.9172, 0.4318, 0.4954
Android (android.graphics.Color)	4290753024 (0xFFBFB200)
YUV	161.5950, -79.6663, 25.7882
Hunter-Lab	65.5112, -12.7228, 40.1450

# Details

The XYZ color **37.4063, 42.9172, 6.3123** is a dark color, and the websafe version is hex **CCCC33**. A complement of this color would be **9.5482, 4.0498, 49.5683**, and the grayscale version is **34.4945, 36.2909, 39.5208**.

A 20% lighter version of the original color is **70.3339, 79.3516, 19.0065**, and **17.1337, 19.9083, 2.9396** is the 20% darker color. If you saturate the color by 10%, you get **37.4069, 42.9187, 6.3126**, and if you desaturate by 10%, it is **37.7855, 43.4863, 7.0235**.

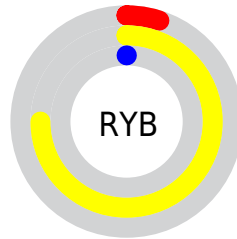
# Distribution



Red (75%)

Green (70%)

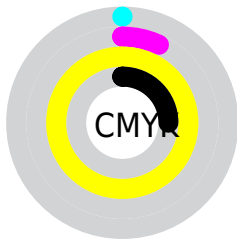
Blue (0%)



Red (5%)

Yellow (75%)

Blue (0%)

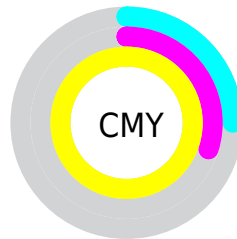


Cyan (0%)

Magenta (7%)

Yellow (100%)

Black (25%)



Cyan (25%)

Magenta (30%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.4063, 42.9172, 6.3123 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 37.4063, 42.9172, 6.3123 by changing the saturation by 10% instead.





 37.4063, 42.9172,  
6.3123


 37.4063, 42.9172,  
6.3123


326.3913,  
358.2711, 171.2286


 25.6973, 29.8202,  
2.9640


 70.5070, 79.5859,  
19.0645

 16.7288, 19.7021,  
1.0763


 92.6295, 103.9263,  
29.3055

 10.1355, 12.1787,  
0.0000


 118.9538,  
132.7834, 42.6812

 5.5518, 6.8655,  
0.0000

 149.8454,  
166.5414, 59.6101

 2.6126, 3.3781,  
0.0000

 185.6696,  
205.5848, 80.5107

 0.9524, 1.3322,  
0.0000

 226.7918,

 0.0000, 0.1659,

250.2979, 105.8017

0.0000

273.5772,  
301.0653, 135.9014

■ 0.0000, 0.0000,  
0.0000

■ 37.4063, 42.9172,  
6.3123

■ 37.4063, 42.9172,  
6.3123

■ 37.4069, 42.9187,  
6.3126

■ 37.7855, 43.4863,  
7.0235

■ 38.2826, 44.1047,  
8.3475

■ 38.9405, 44.7914,  
10.5057

■ 39.7803, 45.5549,  
13.6101

■ 40.8200, 46.4023,  
17.7552

■ 42.0756, 47.3399,  
23.0242

■ 43.5610, 48.3736,  
29.4920

■ 45.2895, 49.5084,  
37.2268

■ 47.2729, 50.7492,  
46.2918

# Harmonies

## Analogous

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



50.3547, 42.9172, 7.4711



37.4063, 42.9172, 6.3123



27.6061, 42.9172, 10.8120

# Triad

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



37.4063, 42.9172, 6.3123



24.6609, 42.9172, 103.8733



67.5173, 42.9172, 77.1345

# Complementary

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



37.4063, 42.9172, 6.3123



9.5482, 4.0498, 49.5683

# 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.



57.6217, 42.9172, 124.4415



37.4063, 42.9172, 6.3123



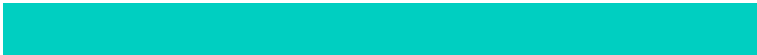
32.5229, 42.9172, 144.6093

# Square

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



37.4063, 42.9172, 6.3123



21.2982, 42.9172, 57.4326



44.3750, 42.9172, 153.6173



69.5686, 42.9172, 37.4464



# Rectangle

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



37.4063, 42.9172, 6.3123



23.5360, 42.9172, 19.0543



44.3750, 42.9172, 153.6173



64.9132, 42.9172, 93.1347

# Sweetspot

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



37.4073, 42.9192, 6.3132



77.8801, 86.5443, 52.2088



21.5789, 11.1139, 1.4954



16.8429, 18.8269, 10.3295



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

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



37.4073, 42.9192, 6.3132



66.9233, 76.7217, 11.2815



25.2397, 40.6685, 6.5200



10.2652, 11.0063, 10.1600



24.6074, 28.2536, 4.1565



0.9807, 1.1404, 0.1684



# Inverse Universe

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



9.5482, 4.0498, 49.5683



17.0404, 7.1327, 88.7577



12.6781, 5.4498, 49.6736



9.0672, 9.3268, 11.9946



6.2971, 2.7059, 32.5833



0.2647, 0.1420, 1.2823



# Previews

## White Background



This preview shows how the XYZ color 37.4063, 42.9172, 6.3123 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 37.4063, 42.9172, 6.3123 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 37.4063, 42.9172, 6.3123**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.4063, 42.9172, 6.3123.



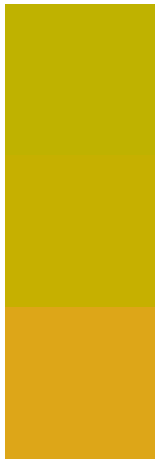
This preview shows how white text looks on a background with the XYZ color 37.4063, 42.9172,



# 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

37.4063, 42.9172, 6.3123

### Protanopia

38.8140, 43.0564, 6.2650

### Deuteranopia

43.6199, 42.7105, 6.8091



## Tritanopia

45.8481, 42.6812, 47.9413

# Trichromacy



## Original Color

37.4063, 42.9172, 6.3123

## Protanomaly

38.2278, 43.0464, 6.2940

## Deuteranomaly

41.0393, 42.4856, 6.4895

## Tritanomaly

40.6441, 41.9475, 21.5773

# Monochromacy



## Original Color

37.4063, 42.9172, 6.3123

## Achromatopsia

34.3422, 36.1307, 39.3463

## Achromatomaly

33.6844, 37.8688, 18.3660

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.4063, 42.9172, 6.3123 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(191, 178, 0)` looks like.

```
.text, #text, p{  
    color:rgb(191, 178, 0)  
}
```

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(191, 178, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(191, 178, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 37.4063, 42.9172, 6.3123 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(191, 178, 0) }
```



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

```
.border{ border-color:rgb(191, 178, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(191, 178, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(191, 178, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(191, 178, 0);  
box-shadow:4px 4px 4px 4px rgb(191, 178,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.4063, 42.9172, 6.3123 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(191, 178, 0) }
```

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

```
.background{ background-color: rgb(191,  
178, 0) }
```

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