

# Converting Colors

XYZ(37.9660, 39.0392, 21.6668)

Have a look what the booklet for  
XYZ(37.9660, 39.0392, 21.6668)  
contains.

<b>XYZ(37.8558, 38.8651, 21.7262)</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(37.8558, 38.8651,  
21.7262)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BFA473
RGB	191, 164, 115
RGB Percent	75%, 64%, 45%
CMY	0.2510, 0.3568, 0.5490
CMYK	0.00, 0.14, 0.40, 0.25
HSL	39°, 37%, 60%
HSV	39°, 40%, 75%
XYZ	37.8558, 38.8651, 21.7262
YIQ	166.4870, 31.8210, -9.5150

# Conversions

## Conversions Part 2

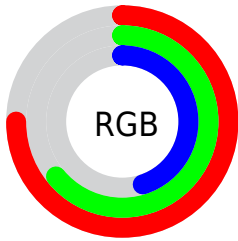
Format	Color
<a href="#">RYB</a>	<a href="#">157, 191, 115</a>
Decimal	<a href="#">12559475</a>
CIELab	<a href="#">68.65, 2.99, 29.08</a>
CIElCh	<a href="#">69, 29.237, 84.129</a>
Yxy	<a href="#">38.8651, 0.3845, 0.3948</a>
Android (android.graphics.Color)	<a href="#">4290749555 (0xFFBFA473)</a>
YUV	<a href="#">166.4870, -25.3831, 21.4979</a>
Hunter-Lab	<a href="#">62.3419, -0.7079, 22.9767</a>

# Details

The XYZ color **37.8558, 38.8651, 21.7262** is a light color, and the websafe version is hex **CC9966**. A complement of this color would be **26.1469, 26.7515, 53.0755**, and the grayscale version is **36.5906, 38.4961, 41.9223**.

A 20% lighter version of the original color is **71.0180, 73.4095, 46.9856**, and **16.9309, 17.2159, 7.5849** is the 20% darker color. If you saturate the color by 10%, you get **35.6869, 36.1077, 16.1312**, and if you desaturate by 10%, it is **40.3191, 41.8467, 28.5437**.

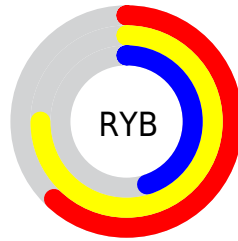
# Distribution



Red (75%)

Green (64%)

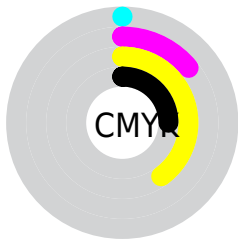
Blue (45%)



Red (62%)

Yellow (75%)

Blue (45%)

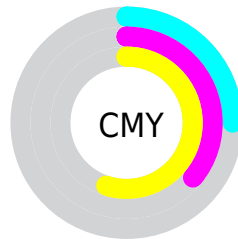


Cyan (0%)

Magenta (14%)

Yellow (40%)

Black (25%)



Cyan (25%)

Magenta (36%)


Yellow (55%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.8558, 38.8651, 21.7262 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 37.8558, 38.8651, 21.7262 by changing the saturation by 10% instead.





 37.8558, 38.8651,  
21.7262


 37.8558, 38.8651,  
21.7262


328.2925,  
341.3166, 274.0198

 26.0475, 26.6548,  
13.4595


 71.1924, 73.4322,  
47.1894

 16.9920, 17.3141,  
7.6113


 93.4514, 96.5578,  
65.2230

 10.3241, 10.4587,  
3.7630


 119.9246,  
124.0906, 87.3492

 5.6783, 5.7041,  
1.4963

150.9775,  
156.4150, 113.9867

 2.6892, 2.6660,  
0.2151

186.9754,  
193.9154, 145.5540

 0.9916, 0.9600,  
0.0000

228.2837,

 0.0000, 0.0000,

236.9762, 182.4695

0.0000

275.2676,  
285.9818, 225.1520

■ 37.8558, 38.8651,  
21.7262

■ 37.8558, 38.8651,  
21.7262

■ 35.6869, 36.1077,  
16.1312

■ 40.3191, 41.8467,  
28.5437

■ 33.7945, 33.5616,  
11.6814

■ 43.0880, 45.0543,  
36.6498

■ 32.1626, 31.2201,  
8.2943


■ 46.1762, 48.4965,  
46.1088


■ 30.7723, 29.0739,  
5.8750


■ 49.5959, 52.1794,  
56.9799


■ 29.6014, 27.1125,  
4.3119


■ 53.3586, 56.1093,  
69.3188

 28.6081, 25.3174,  
3.3905

 57.4751, 60.2917,  
83.1781

 28.5881, 25.2810,  
3.3730

 61.9557, 64.7324,  
98.6079

 64.6798, 68.5844,  
104.4369

 66.4784, 72.1815,  
105.0364

# Harmonies

## Analogous

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



42.3913, 38.8651, 24.8740



37.8558, 38.8651, 21.7262



33.4277, 38.8651, 23.0931

# Triad

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



37.8558, 38.8651, 21.7262



29.4144, 38.8651, 53.5881



44.6130, 38.8651, 59.0363

# Complementary

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



37.8558, 38.8651, 21.7262



26.1469, 26.7515, 53.0755

# 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.



40.6903, 38.8651, 70.0276



37.8558, 38.8651, 21.7262



31.9775, 38.8651, 66.4513

# Square

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



37.8558, 38.8651, 21.7262



28.7923, 38.8651, 39.7693



36.0393, 38.8651, 72.9906



46.4960, 38.8651, 44.9722



# Rectangle

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



37.8558, 38.8651, 21.7262



31.0959, 38.8651, 26.5628



36.0393, 38.8651, 72.9906



43.4742, 38.8651, 63.3212

# Sweetspot

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



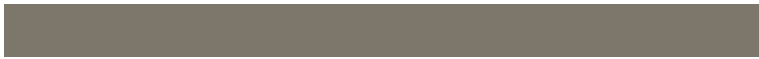
37.8568, 38.8669, 21.7270



81.3211, 85.3390, 78.2881



32.5646, 25.3174, 29.1045



17.6936, 18.5584, 16.6859



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.



37.8568, 38.8669, 21.7270



64.2925, 65.1604, 29.8260



40.7502, 48.3070, 23.3966



10.0294, 10.5347, 10.0814



18.8660, 16.7707, 2.2427



0.7985, 0.7760, 0.1077



# Inverse Universe

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



26.1469, 26.7515, 53.0755



40.3626, 40.4228, 93.9542



24.0120, 20.3936, 51.9608



9.2864, 9.7650, 12.0676



7.6020, 5.3157, 33.0183

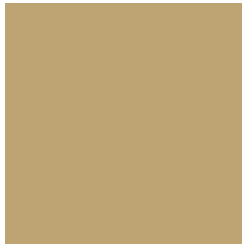


0.3603, 0.3332, 1.3142



# Previews

## White Background



This preview shows how the XYZ color 37.8558, 38.8651, 21.7262 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 37.8558, 38.8651, 21.7262 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

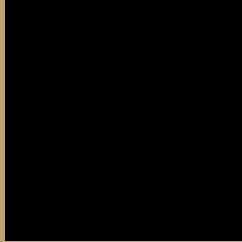
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 37.8558, 38.8651, 21.7262**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.8558, 38.8651, 21.7262.



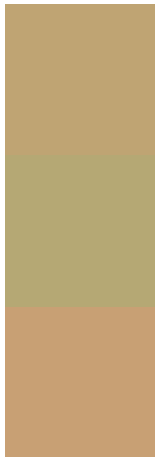
This preview shows how white text looks on a background with the XYZ color 37.8558, 38.8651,



# 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

37.8558, 38.8651, 21.7262

### Protanopia

36.2111, 39.0900, 22.1596

### Deuteranopia

39.5426, 38.6819, 21.9052



## Tritanopia

42.2444, 38.8488, 42.8082

# Trichromacy



## Original Color

37.8558, 38.8651, 21.7262

## Protanomaly

36.9787, 39.2127, 22.1428

## Deuteranomaly

38.9232, 38.6210, 21.9261

## Tritanomaly

40.5013, 38.9136, 33.8102

# Monochromacy



## Original Color

37.8558, 38.8651, 21.7262

## Achromatopsia

36.2450, 38.1326, 41.5264

## Achromatomaly

36.4008, 38.1308, 33.0452

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.8558, 38.8651, 21.7262 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, 164, 115)` looks like.

```
.text, #text, p{  
    color:rgb(191, 164, 115)  
}
```

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, 164, 115) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(191, 164, 115) }
```

## Border

The CSS property to change the border of an element to XYZ 37.8558, 38.8651, 21.7262 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, 164, 115) }
```



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

```
.border{ border-color:rgb(191, 164, 115) }
```

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

Here you see how a box with a 4 pixel `rgb(191, 164, 115)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(191, 164, 115); -webkit-box-  
shadow:4px 4px 4px 4px rgb(191, 164, 115);  
box-shadow:4px 4px 4px 4px rgb(191, 164,  
115) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.8558, 38.8651, 21.7262 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(191, 164, 115) }
```

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

```
.background{ background-color: rgb(191,  
164, 115) }
```

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