

# Converting Colors

XYZ(37.6016, 45.0103, 27.3633)

Have a look what the booklet for  
XYZ(37.6016, 45.0103, 27.3633)  
contains.

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# Color

**XYZ(37.6698, 45.0276,  
27.4747)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A8BA81
RGB	168, 186, 129
RGB Percent	66%, 73%, 51%
CMY	0.3412, 0.2706, 0.4941
CMYK	0.10, 0.00, 0.31, 0.27
HSL	79°, 29%, 62%
HSV	79°, 31%, 73%
XYZ	37.6698, 45.0276, 27.4747
YIQ	174.1200, 7.5690, -21.5430

# Conversions

## Conversions Part 2

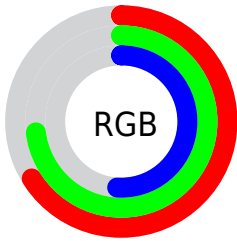
<b>Format</b>	<b>Color</b>
<b>RYB</b>	129, 186, 147
Decimal	11057793
CIELab	72.91, -15.96, 26.91
CIELCh	73, 31.288, 120.672
Yxy	45.0276, 0.3419, 0.4087
Android (android.graphics.Color)	4289247873 (0xFFA8BA81)
YUV	174.1200, -22.2442, -5.3672
Hunter-Lab	67.1026, -17.2239, 22.6959

# Details

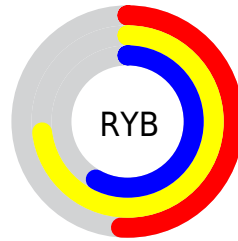
The XYZ color **37.6698, 45.0276, 27.4747** is a light color, and the websafe version is hex **CCCC99**. A complement of this color would be **28.7476, 25.4500, 49.8540**, and the grayscale version is **40.4028, 42.5069, 46.2900**.

A 20% lighter version of the original color is **70.9361, 82.7290, 56.4855**, and **16.8690, 20.9844, 10.5584** is the 20% darker color. If you saturate the color by 10%, you get **35.3220, 43.9488, 21.4880**, and if you desaturate by 10%, it is **40.3015, 46.2296, 34.6513**.

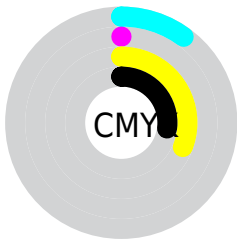
# Distribution



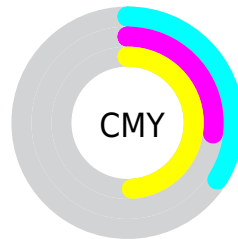
- Red (66%)
- Green (73%)
- Blue (51%)



- Red (51%)
- Yellow (73%)
- Blue (58%)



- Cyan (10%)
- Magenta (0%)
- Yellow (31%)
- Black (27%)




- Cyan (34%)
- Magenta (27%)
- Yellow (49%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.6698, 45.0276, 27.4747 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 37.6698, 45.0276, 27.4747 by changing the saturation by 10% instead.





 37.6698, 45.0276,  
27.4747


 37.6698, 45.0276,  
27.4747


327.5068,  
366.8853, 303.7808


 25.9026, 31.4792,  
17.6945


 70.9089, 82.7618,  
56.6576

 16.8831, 20.9640,  
10.5637


 93.1115, 107.7164,  
76.8974

 10.2459, 13.0977,  
5.6638

 119.5232,  
137.2418, 101.4608

 5.6258, 7.4958,  
2.5763

150.5095,  
171.7225, 130.7664

 2.6574, 3.7741,  
0.8802

186.4356,  
211.5428, 165.2326

 0.9753, 1.5480,  
0.0000

227.6670,

 0.0000, 0.3222,

257.0871, 205.2781

0.0000

274.5689,  
308.7398, 251.3213

■ 0.0000, 0.0000,  
0.0000

■ 37.6698, 45.0276,  
27.4747

■ 37.6698, 45.0276,  
27.4747

■ 35.3220, 43.9488,  
21.4880

■ 40.3015, 46.2296,  
34.6513

■ 33.2418, 42.9819,  
16.6240

■ 43.2257, 47.5536,  
43.0746

■ 31.4160, 42.1231,  
12.8130

■ 46.4548, 49.0064,  
52.8009

■ 29.8292, 41.3662,  
9.9767

■ 49.9993, 50.5921,  
63.8825

■ 28.4634, 40.7039,  
8.0255

■ 53.8695, 52.3148,  
76.3687

■ 27.2978, 40.1277,  
6.8535

■ 58.0747, 54.1786,  
90.3064

■ 26.3503, 39.6514,  
6.2647

■ 61.9396, 55.9132,  
102.1355

■ 63.6340, 56.7867,  
102.2148

■ 65.3904, 57.6921,  
102.2970

# Harmonies

## Analogous

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



42.6745, 45.0276, 24.7191



37.6698, 45.0276, 27.4747



34.2938, 45.0276, 35.7444

# Triad

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



37.6698, 45.0276, 27.4747



37.8658, 45.0276, 80.1332



54.1577, 45.0276, 48.6761

# Complementary

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



37.6698, 45.0276, 27.4747



28.7476, 25.4500, 49.8540

# 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.



52.6019, 45.0276, 65.2503



37.6698, 45.0276, 27.4747



42.9205, 45.0276, 85.5884

# Square

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



37.6698, 45.0276, 27.4747



34.4000, 45.0276, 65.9911



48.3704, 45.0276, 79.6455



52.4609, 45.0276, 35.2526



# Rectangle

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



37.6698, 45.0276, 27.4747



33.2648, 45.0276, 44.3209



48.3704, 45.0276, 79.6455



53.9966, 45.0276, 54.0559

# Sweetspot

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



37.6709, 45.0296, 27.4757



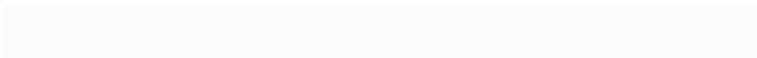
79.1854, 86.5684, 80.5572



34.5081, 32.6141, 25.2459



17.2569, 18.9821, 17.2043



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438



# Same Dimension

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



37.6709, 45.0296, 27.4757



65.2588, 80.2276, 42.0176



32.4056, 42.3152, 27.2292



9.4668, 10.3573, 9.6071



17.8070, 26.7162, 4.2182



0.6887, 0.9733, 0.1516



# Inverse Universe

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



28.7476, 25.4500, 49.8540



46.4324, 38.8983, 89.2623



34.3043, 28.3146, 50.1141



8.7809, 8.8534, 11.3255



7.2356, 3.0413, 31.4587



0.3211, 0.1413, 1.1121



# Previews

## White Background



This preview shows how the XYZ color 37.6698, 45.0276, 27.4747 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 37.6698, 45.0276, 27.4747 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

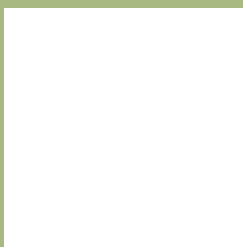
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 37.6698, 45.0276, 27.4747**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.6698, 45.0276, 27.4747.



This preview shows how white text looks on a background with the XYZ color 37.6698, 45.0276,

27.4747.

# 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

37.6698, 45.0276, 27.4747

### Protanopia

41.8783, 45.0840, 26.2335

### Deuteranopia

45.5917, 44.6406, 28.0434



## Tritanopia

43.5663, 44.9937, 56.2576

# Trichromacy



## Original Color

37.6698, 45.0276, 27.4747

## Protanomaly

40.3259, 45.1786, 26.6736

## Deuteranomaly

42.1277, 44.2915, 27.8015

## Tritanomaly

41.1409, 44.9110, 44.0364

# Monochromacy



## Original Color

37.6698, 45.0276, 27.4747

## Achromatopsia

40.2316, 42.3268, 46.0938

## Achromatomaly

39.1052, 43.0801, 38.6020

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.6698, 45.0276, 27.4747 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(168, 186, 129)` looks like.

```
.text, #text, p{  
    color:rgb(168, 186, 129)  
}
```

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(168, 186, 129) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(168, 186, 129) }
```

## Border

The CSS property to change the border of an element to XYZ 37.6698, 45.0276, 27.4747 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(168, 186, 129) }
```



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

```
.border{ border-color:rgb(168, 186, 129) }
```

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

Here you see how a box with a 4 pixel `rgb(168, 186, 129)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(168, 186, 129); -webkit-box-  
shadow:4px 4px 4px 4px rgb(168, 186, 129);  
box-shadow:4px 4px 4px 4px rgb(168, 186,  
129) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.6698, 45.0276, 27.4747 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(168, 186, 129) }
```

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

```
.background{ background-color: rgb(168,  
186, 129) }
```

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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