

# Converting Colors

XYZ(37.8382, 40.3998, 18.9091)

Have a look what the booklet for  
XYZ(37.8382, 40.3998, 18.9091)  
contains.

<b>XYZ(37.6729, 40.1942, 18.8694)</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(37.6729, 40.1942,  
18.8694)**

# Conversions

## Conversions Part 1

Format	Color
Hex	<a href="#">BDA968</a>
RGB	<a href="#">189, 169, 104</a>
RGB Percent	<a href="#">74%, 66%, 41%</a>
CMY	<a href="#">0.2588, 0.3372, 0.5921</a>
CMYK	<a href="#">0.00, 0.11, 0.45, 0.26</a>
HSL	<a href="#">46°, 39%, 57%</a>
HSV	<a href="#">46°, 45%, 74%</a>
XYZ	<a href="#">37.6729, 40.1942, 18.8694</a>
YIQ	<a href="#">167.5700, 32.7850, -15.9750</a>

# Conversions

## Conversions Part 2

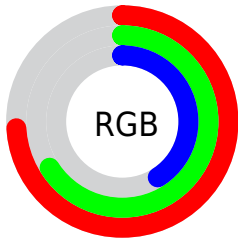
<b>Format</b>	<b>Color</b>
<b>RYB</b>	130, 189, 104
Decimal	12429672
CIELab	69.61, -1.72, 36.09
CIElCh	70, 36.135, 92.722
Yxy	40.1942, 0.3894, 0.4155
Android (android.graphics.Color)	4290619752 (0xFFBDA968)
YUV	167.5700, -31.3400, 18.7941
Hunter-Lab	63.3989, -4.8798, 26.7328

# Details

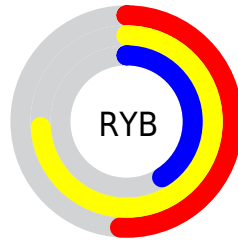
The XYZ color **37.6729, 40.1942, 18.8694** is a light color, and the websafe version is hex **999966**. A complement of this color would be **22.1017, 21.0318, 51.0386**, and the grayscale version is **37.1469, 39.0814, 42.5597**.

A 20% lighter version of the original color is **71.0142, 75.4858, 42.2799**, and **16.8824, 18.0667, 6.2119** is the 20% darker color. If you saturate the color by 10%, you get **36.0057, 38.2277, 14.0966**, and if you desaturate by 10%, it is **39.5854, 42.3068, 24.7864**.

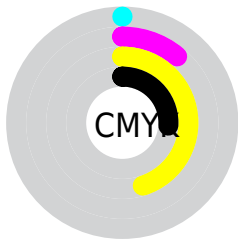
# Distribution



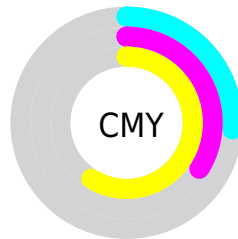
- Red (74%)
- Green (66%)
- Blue (41%)



- Red (51%)
- Yellow (74%)
- Blue (41%)



- Cyan (0%)
- Magenta (11%)
- Yellow (45%)
- Black (26%)



- Cyan (26%)
- Magenta (34%)
- Yellow (59%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.6729, 40.1942, 18.8694 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 37.6729, 40.1942, 18.8694 by changing the saturation by 10% instead.



■ 37.6729, 40.1942,  
18.8694

■ 37.6729, 40.1942,  
18.8694

327.5199,  
346.9414, 258.1255

■ 25.9050, 27.6900,  
11.4001

■ 70.9136, 75.4591,  
42.3471

■ 16.8849, 18.0921,  
6.2191

■ 93.1172, 98.9887,  
59.1925

■ 10.2472, 11.0161,  
2.9078

■ 119.5299,  
126.9621, 80.0004

■ 5.6267, 6.0777,  
1.0478

■ 150.5173,  
159.7638, 105.1892

■ 2.6579, 2.8924,  
0.0000

186.4446,  
197.7782, 135.1776

■ 0.9756, 1.0758,  
0.0000

227.6773,

■ 0.0000, 0.0000,

241.3897, 170.3841

0.0000

274.5806,  
290.9826, 211.2272

■ 37.6729, 40.1942,  
18.8694

■ 37.6729, 40.1942,  
18.8694

■ 36.0057, 38.2277,  
14.0966

■ 39.5854, 42.3068,  
24.7864

■ 34.5659, 36.3953,  
10.3887

■ 41.7537, 44.5656,  
31.9147

■ 33.3381, 34.6917,  
7.6605

■ 44.1912, 46.9781,  
40.3191

■ 32.3028, 33.1089,  
5.8121

■ 46.9095, 49.5491,  
50.0592

■ 31.4370, 31.6371,  
4.7225

■ 49.9194, 52.2834,  
61.1908

■ 31.0414, 30.9291,  
4.3339

■ 53.2310, 55.1856,  
73.7663

■ 56.8542, 58.2599,  
87.8357

■ 60.7655, 61.4975,  
103.2753

■ 61.8414, 63.6491,  
103.6339

# Harmonies

## Analogous

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



43.5815, 40.1942, 20.9617



37.6729, 40.1942, 18.8694



32.4520, 40.1942, 21.9100

# Triad

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



37.6729, 40.1942, 18.8694



29.5177, 40.1942, 63.5406



49.0720, 40.1942, 60.2108

# Complementary

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



37.6729, 40.1942, 18.8694



22.1017, 21.0318, 51.0386

# 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.



44.5971, 40.1942, 76.7587



37.6729, 40.1942, 18.8694



33.2870, 40.1942, 79.0000

# Square

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



37.6729, 40.1942, 18.8694



28.0535, 40.1942, 45.3088



38.7388, 40.1942, 84.3626



50.5464, 40.1942, 42.2560



# Rectangle

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



37.6729, 40.1942, 18.8694



29.9507, 40.1942, 27.0403



38.7388, 40.1942, 84.3626



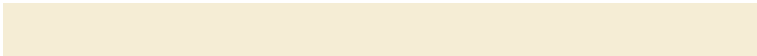
47.8478, 40.1942, 66.2626

# Sweetspot

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



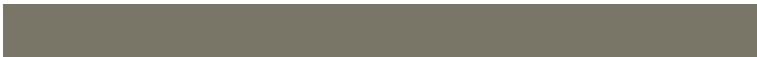
37.6739, 40.1961, 18.8702



79.9687, 84.9296, 75.1131



29.6545, 22.2069, 22.2098



16.9758, 18.0506, 15.3730



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.



37.6739, 40.1961, 18.8702



64.5166, 68.5030, 25.3293



36.7917, 45.6921, 19.9776



10.1268, 10.7297, 10.1139



20.9465, 20.9318, 2.9362



0.8675, 0.9140, 0.1307



# Inverse Universe

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



22.1017, 21.0318, 51.0386



33.1392, 29.9223, 90.2552



22.6300, 17.9541, 50.4167



9.1938, 9.5800, 12.0368



6.8477, 3.8071, 32.7668



0.3202, 0.2531, 1.3008



# Previews

## White Background



This preview shows how the XYZ color 37.6729, 40.1942, 18.8694 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

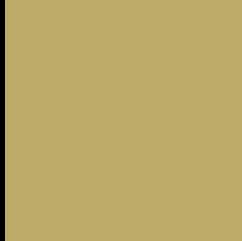
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.6729, 40.1942, 18.8694 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 37.6729, 40.1942, 18.8694**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.6729, 40.1942, 18.8694.



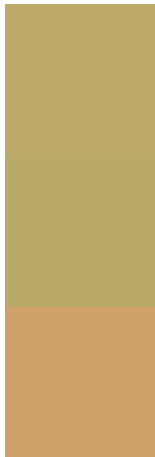
This preview shows how white text looks on a background with the XYZ color 37.6729, 40.1942,



# 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

37.6729, 40.1942, 18.8694

### Protanopia

37.1231, 40.1880, 18.8972

### Deuteranopia

40.9237, 39.9824, 18.9251



## Tritanopia

43.0526, 40.2426, 45.0336

# Trichromacy



## Original Color

37.6729, 40.1942, 18.8694

## Protanomaly

37.3669, 40.3137, 18.9086

## Deuteranomaly

39.8244, 40.2095, 19.0269

## Tritanomaly

40.6131, 40.0265, 33.6023

# Monochromacy



## Original Color

37.6729, 40.1942, 18.8694

## Achromatopsia

37.2190, 39.1572, 42.6422

## Achromatomaly

37.0180, 39.2797, 32.4187

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.6729, 40.1942, 18.8694 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(189, 169, 104)` looks like.

```
.text, #text, p{  
    color:rgb(189, 169, 104)  
}
```

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(189, 169, 104) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 169, 104) }
```

## Border

The CSS property to change the border of an element to XYZ 37.6729, 40.1942, 18.8694 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(189, 169, 104) }
```



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

```
.border{ border-color:rgb(189, 169, 104) }
```

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

Here you see how a box with a 4 pixel rgb(189, 169, 104) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 169, 104); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 169, 104);  
box-shadow:4px 4px 4px 4px rgb(189, 169,  
104) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.6729, 40.1942, 18.8694 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 169, 104) }
```

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

```
.background{ background-color: rgb(189,  
169, 104) }
```

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