

# Converting Colors

XYZ(37.5105, 40.4397, 19.2507)

Have a look what the booklet for  
XYZ(37.5105, 40.4397, 19.2507)  
contains.

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# Color

**XYZ(37.4180, 40.3342,  
19.1777)**

# Conversions

## Conversions Part 1

Format	Color
Hex	<a href="#">BBAA69</a>
RGB	187, 170, 105
RGB Percent	73%, 67%, 41%
CMY	0.2667, 0.3333, 0.5882
CMYK	0.00, 0.09, 0.44, 0.27
HSL	48°, 38%, 57%
HSV	48°, 44%, 73%
XYZ	37.4180, 40.3342, 19.1777
YIQ	167.6730, 30.9970, -16.6110

# Conversions

## Conversions Part 2

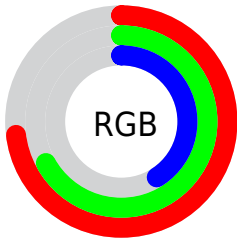
Format	Color
<a href="#">RYB</a>	<a href="#">126, 187, 105</a>
Decimal	<a href="#">12298857</a>
CIELab	<a href="#">69.71, -2.97, 35.66</a>
CIELCh	<a href="#">70, 35.785, 94.767</a>
Yxy	<a href="#">40.3342, 0.3860, 0.4161</a>
Android (android.graphics.Color)	<a href="#">4290488937 (0xFFBBAA69)</a>
YUV	<a href="#">167.6730, -30.8978, 16.9498</a>
Hunter-Lab	<a href="#">63.5092, -5.9735, 26.5528</a>

# Details

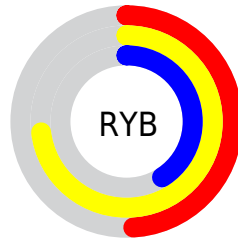
The XYZ color **37.4180, 40.3342, 19.1777** is a light color, and the websafe version is hex **999966**. A complement of this color would be **21.7546, 20.5093, 49.8256**, and the grayscale version is **37.1959, 39.1330, 42.6159**.

A 20% lighter version of the original color is **70.3192, 75.5178, 42.7685**, and **16.7080, 18.1479, 6.3637** is the 20% darker color. If you saturate the color by 10%, you get **35.8451, 38.5610, 14.4218**, and if you desaturate by 10%, it is **39.2257, 42.2385, 25.0555**.

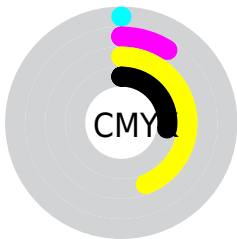
# Distribution



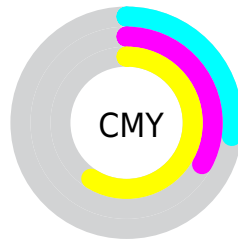
- Red (73%)
- Green (67%)
- Blue (41%)



- Red (49%)
- Yellow (73%)
- Blue (41%)



- Cyan (0%)
- Magenta (9%)
- Yellow (44%)
- Black (27%)



- Cyan (27%)
- Magenta (33%)
- Yellow (59%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.4180, 40.3342, 19.1777 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 37.4180, 40.3342, 19.1777 by changing the saturation by 10% instead.



■ 37.4180, 40.3342,  
19.1777

■ 37.4180, 40.3342,  
19.1777

326.4409,  
347.5302, 259.8834

■ 25.7065, 27.7992,  
11.6206

■ 70.5249, 75.6722,  
42.8748

■ 16.7357, 18.1744,  
6.3665

■ 92.6509, 99.2439,  
59.8520

■ 10.1404, 11.0752,  
2.9968

■ 118.9791,  
127.2634, 80.8063

■ 5.5551, 6.1175,  
1.0930

■ 149.8749,  
160.1149, 106.1562

■ 2.6146, 2.9166,  
0.0000

185.7037,  
198.1830, 136.3204

■ 0.9534, 1.0884,  
0.0000

226.8307,

■ 0.0000, 0.0000,

241.8520, 171.7172

0.0000

273.6213,  
291.5062, 212.7654

■ 37.4180, 40.3342,  
19.1777

■ 37.4180, 40.3342,  
19.1777

■ 35.8451, 38.5610,  
14.4218

■ 39.2257, 42.2385,  
25.0555

■ 34.4898, 36.9074,  
10.7114

■ 41.2781, 44.2738,  
32.1197

■ 33.3372, 35.3686,  
7.9647


■ 43.5881, 46.4469,  
40.4330


■ 32.3691, 33.9369,  
6.0863


■ 46.1668, 48.7627,  
50.0530


■ 31.5634, 32.6034,  
4.9616


■ 49.0246, 51.2255,  
61.0335

 31.1215, 31.8209,  
4.5018

 52.1713, 53.8396,  
73.4255

 55.6163, 56.6089,  
87.2772

 59.3684, 59.5372,  
102.6345

 60.3475, 61.3929,  
103.2771

# Harmonies

## Analogous

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



43.2844, 40.3342, 20.9165



37.4180, 40.3342, 19.1777



32.3281, 40.3342, 22.5757

# Triad

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



37.4180, 40.3342, 19.1777



29.8937, 40.3342, 64.7392



49.3228, 40.3342, 58.9707

# Complementary

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



37.4180, 40.3342, 19.1777



21.7546, 20.5093, 49.8256

# 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.



45.0466, 40.3342, 75.6864



37.4180, 40.3342, 19.1777



33.7807, 40.3342, 79.5623

# Square

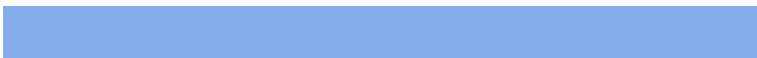
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



37.4180, 40.3342, 19.1777



28.2717, 40.3342, 46.6225



39.2698, 40.3342, 84.0026



50.5446, 40.3342, 41.3184



# Rectangle

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



37.4180, 40.3342, 19.1777



29.9377, 40.3342, 27.9625



39.2698, 40.3342, 84.0026



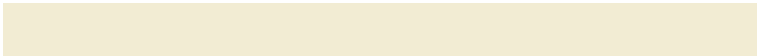
48.1752, 40.3342, 65.0146

# Sweetspot

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



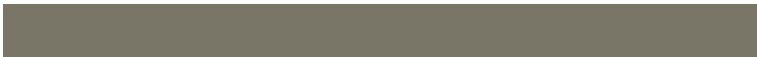
37.4190, 40.3361, 19.1785



78.3471, 83.4440, 73.4457



29.1058, 22.0925, 21.3931



17.0404, 18.1798, 15.3945



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.



37.4190, 40.3361, 19.1785



64.1967, 69.0607, 25.8236



35.5819, 44.4281, 20.0652



10.1498, 10.7756, 10.1216



21.4961, 22.0309, 3.1194



0.8851, 0.9491, 0.1365



# Inverse Universe

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



21.7546, 20.5093, 49.8256



32.4320, 28.8868, 88.0678



22.9588, 18.2987, 49.3354



9.1724, 9.5372, 12.0296



6.7176, 3.5469, 32.7235



0.3109, 0.2345, 1.2977



# Previews

## White Background



This preview shows how the XYZ color 37.4180, 40.3342, 19.1777 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

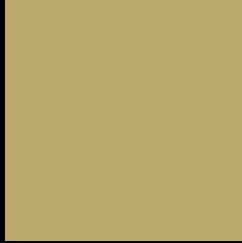
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.4180, 40.3342, 19.1777 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

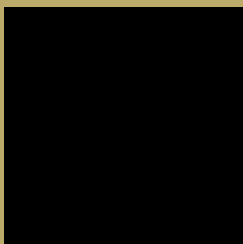
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

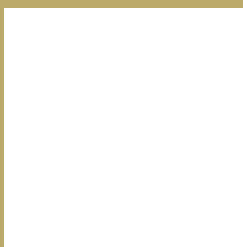
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 37.4180, 40.3342, 19.1777**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.4180, 40.3342, 19.1777.



This preview shows how white text looks on a background with the XYZ color 37.4180, 40.3342,



# 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

37.4180, 40.3342, 19.1777

### Protanopia

37.1742, 40.2085, 19.1663

### Deuteranopia

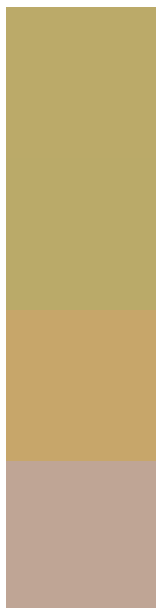
41.2046, 40.3777, 19.5319



## Tritanopia

42.8084, 40.3660, 45.5796

# Trichromacy



## Original Color

37.4180, 40.3342, 19.1777

## Protanomaly

37.1742, 40.2085, 19.1663

## Deuteranomaly

39.7909, 40.4552, 19.3471

## Tritanomaly

40.3658, 40.1566, 34.0573

# Monochromacy



## Original Color

37.4180, 40.3342, 19.1777

## Achromatopsia

37.2190, 39.1572, 42.6422

## Achromatomaly

36.9780, 39.5342, 32.4700

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.4180, 40.3342, 19.1777 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(187, 170, 105)` looks like.

```
.text, #text, p{  
    color:rgb(187, 170, 105)  
}
```

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(187, 170, 105) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(187, 170, 105) }
```

## Border

The CSS property to change the border of an element to XYZ 37.4180, 40.3342, 19.1777 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(187, 170, 105) }
```



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

```
.border{ border-color:rgb(187, 170, 105) }
```

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

Here you see how a box with a 4 pixel `rgb(187, 170, 105)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(187, 170, 105); -webkit-box-  
shadow:4px 4px 4px 4px rgb(187, 170, 105);  
box-shadow:4px 4px 4px 4px rgb(187, 170,  
105) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.4180, 40.3342, 19.1777 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(187, 170, 105) }
```

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

```
.background{ background-color: rgb(187,  
170, 105) }
```

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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