

# Converting Colors

XYZ(37.6568, 38.8955, 22.2106)

Have a look what the booklet for  
XYZ(37.6568, 38.8955, 22.2106)  
contains.

<b>XYZ(37.6523, 39.0134, 22.3755)</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(37.6523, 39.0134,  
22.3755)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	BDA575
RGB	189, 165, 117
RGB Percent	74%, 65%, 46%
CMY	0.2588, 0.3529, 0.5412
CMYK	0.00, 0.13, 0.38, 0.26
HSL	40°, 35%, 60%
HSV	40°, 38%, 74%
XYZ	37.6523, 39.0134, 22.3755
YIQ	166.7040, 29.7120, -9.8400

# Conversions

## Conversions Part 2

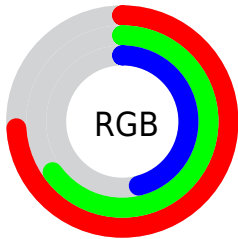
<b>Format</b>	<b>Color</b>
<b>RYB</b>	153, 189, 117
Decimal	12428661
CIELab	68.76, 1.87, 28.12
CIElCh	69, 28.178, 86.202
Yxy	39.0134, 0.3802, 0.3939
Android (android.graphics.Color)	4290618741 (0xFFBDA575)
YUV	166.7040, -24.5041, 19.5536
Hunter-Lab	62.4607, -1.7036, 22.4828

# Details

The XYZ color **37.6523, 39.0134, 22.3755** is a light color, and the websafe version is hex **999966**. A complement of this color would be **26.0461, 26.5051, 51.8874**, and the grayscale version is **36.6926, 38.6035, 42.0392**.

A 20% lighter version of the original color is **70.8549, 73.6815, 48.5177**, and **16.7800, 17.2959, 7.9229** is the 20% darker color. If you saturate the color by 10%, you get **35.5433, 36.3978, 16.7326**, and if you desaturate by 10%, it is **40.0436, 41.8343, 29.2203**.

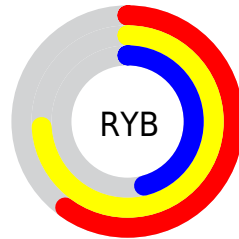
# Distribution



Red (74%)

Green (65%)

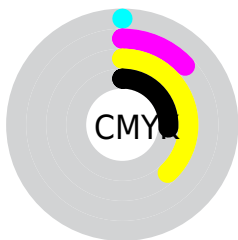
Blue (46%)



Red (60%)

Yellow (74%)

Blue (46%)

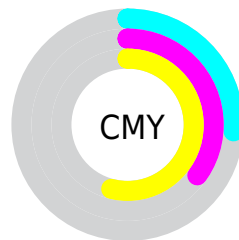


Cyan (0%)

Magenta (13%)

Yellow (38%)

Black (26%)



Cyan (26%)

Magenta (35%)

Yellow (54%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.6523, 39.0134, 22.3755 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 37.6523, 39.0134, 22.3755 by changing the saturation by 10% instead.



■ 37.6523, 39.0134,  
22.3755

■ 37.6523, 39.0134,  
22.3755

327.4328,  
341.9475, 277.5182

■ 25.8889, 26.7702,  
13.9321

■ 70.8822, 73.6588,  
48.2760

■ 16.8728, 17.4007,  
7.9353

■ 93.0795, 96.8297,  
66.5701

■ 10.2386, 10.5206,  
3.9664

■ 119.4854,  
124.4120, 88.9850

■ 5.6209, 5.7455,  
1.6069

150.4654,  
156.7900, 115.9390

■ 2.6544, 2.6909,  
0.2957

186.3848,  
194.3482, 147.8508

■ 0.9738, 0.9726,  
0.0000

227.6089,

■ 0.0000, 0.0000,

237.4709, 185.1389

0.0000

274.5031,  
286.5425, 228.2219

■ 37.6523, 39.0134,  
22.3755

■ 37.6523, 39.0134,  
22.3755

■ 35.5433, 36.3978,  
16.7326

■ 40.0436, 41.8343,  
29.2203

■ 33.6993, 33.9751,  
12.2174

■ 42.7275, 44.8616,  
37.3303

■ 32.1054, 31.7393,  
8.7511

■ 45.7173, 48.1033,  
46.7674

■ 30.7438, 29.6821,  
6.2436

■ 49.0245, 51.5652,  
57.5887

■ 29.5935, 27.7938,  
4.5897

■ 52.6600, 55.2527,  
69.8477

■ 28.6227, 26.0601,  
3.6249

■ 56.6341, 59.1713,  
83.5954

■ 28.4485, 25.7433,  
3.4696

■ 60.9567, 63.3259,  
98.8799

■ 63.4378, 66.8418,  
104.1660

■ 65.0767, 70.1196,  
104.7123

# Harmonies

## Analogous

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



42.0614, 39.0134, 25.1566



37.6523, 39.0134, 22.3755



33.4203, 39.0134, 24.0261

# Triad

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



37.6523, 39.0134, 22.3755



29.9033, 39.0134, 54.2783



44.6777, 39.0134, 57.6661

# Complementary

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



37.6523, 39.0134, 22.3755



26.0461, 26.5051, 51.8874

# 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.



40.9999, 39.0134, 68.5602



37.6523, 39.0134, 22.3755



32.5102, 39.0134, 66.3450

# Square

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



37.6523, 39.0134, 22.3755



29.1620, 39.0134, 40.8720



36.5156, 39.0134, 72.0167



46.3178, 39.0134, 44.1275



# Rectangle

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



37.6523, 39.0134, 22.3755



31.2266, 39.0134, 27.6408



36.5156, 39.0134, 72.0167



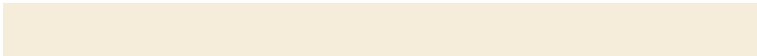
43.6250, 39.0134, 61.8563

# Sweetspot

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



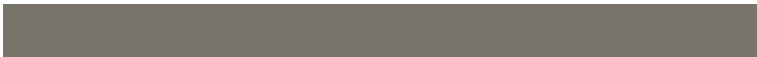
37.6533, 39.0152, 22.3763



80.1698, 84.3223, 78.2923



32.1556, 25.4649, 28.4202



17.0824, 17.9628, 16.3359



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.



37.6533, 39.0152, 22.3763



64.1428, 65.8045, 31.2196



39.5402, 47.0268, 23.8232



10.0471, 10.5701, 10.0873



19.2136, 17.4659, 2.3586



0.8104, 0.7997, 0.1117



# Inverse Universe

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



26.0461, 26.5051, 51.8874



40.3193, 40.1466, 91.8502



24.6003, 21.0644, 50.9134



9.2693, 9.7310, 12.0619



7.4392, 4.9902, 32.9640



0.3528, 0.3182, 1.3117



# Previews

## White Background



This preview shows how the XYZ color 37.6523, 39.0134, 22.3755 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 37.6523, 39.0134, 22.3755 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

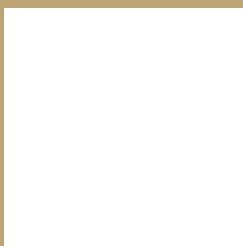
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 37.6523, 39.0134, 22.3755**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.6523, 39.0134, 22.3755.



This preview shows how white text looks on a background with the XYZ color 37.6523, 39.0134,



# 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

37.6523, 39.0134, 22.3755

### Protanopia

36.3287, 39.1370, 22.7790

### Deuteranopia

39.8343, 39.0771, 22.5827



## Tritanopia

41.9882, 38.9581, 43.3369

# Trichromacy



## Original Color

37.6523, 39.0134, 22.3755

## Protanomaly

36.8559, 39.1358, 22.7510

## Deuteranomaly

38.9553, 38.8844, 22.5918

## Tritanomaly

40.3231, 39.0616, 34.6925

# Monochromacy



## Original Color

37.6523, 39.0134, 22.3755

## Achromatopsia

36.7301, 38.6429, 42.0822

## Achromatomaly

36.7402, 38.5563, 33.9395

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.6523, 39.0134, 22.3755 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, 165, 117)` looks like.

```
.text, #text, p{  
    color:rgb(189, 165, 117)  
}
```

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, 165, 117) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 165, 117) }
```

## Border

The CSS property to change the border of an element to XYZ 37.6523, 39.0134, 22.3755 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, 165, 117) }
```



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

```
.border{ border-color:rgb(189, 165, 117) }
```

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

Here you see how a box with a 4 pixel `rgb(189, 165, 117)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 165, 117); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 165, 117);  
box-shadow:4px 4px 4px 4px rgb(189, 165,  
117) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.6523, 39.0134, 22.3755 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 165, 117) }
```

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

```
.background{ background-color: rgb(189,  
165, 117) }
```

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