

# Converting Colors

XYZ(36.9453, 38.8694, 42.3287)

Have a look what the booklet for  
XYZ(36.9453, 38.8694, 42.3287)  
contains.

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# **Color**

**XYZ(36.7301, 38.6429,  
42.0822)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A7A7A7
RGB	167, 167, 167
RGB Percent	65%, 65%, 65%
CMY	0.3451, 0.3451, 0.3451
CMYK	0.00, 0.00, 0.00, 0.35
HSL	124°, 0%, 65%
HSV	124°, 0%, 65%
XYZ	36.7301, 38.6429, 42.0822
YIQ	167.0000, -0.0000, -0.0000

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	167, 167, 167
Decimal	10987431
CIELab	68.49, 0.00, -0.01
CIELCh	68, 0.009, 296.991
Yxy	38.6429, 0.3127, 0.3290
Android (android.graphics.Color)	4289177511 (0xFFA7A7A7)
YUV	167.0000, 0.0000, 0.0000
Hunter-Lab	62.1634, -3.3168, 3.3774

# Details

The XYZ color **36.7301, 38.6429, 42.0822** is a light color, and the websafe version is hex **999999**. A complement of this color would be **36.7315, 38.6439, 42.0841**, and the grayscale version is **36.7315, 38.6444, 42.0837**.

A 20% lighter version of the original color is **69.4303, 73.0461, 79.5472**, and **16.2955, 17.1441, 18.6699** is the 20% darker color. If you saturate the color by 10%, you get **32.0646, 36.3963, 34.7505**, and if you desaturate by 10%, it is **42.0292, 41.1980, 50.3627**.

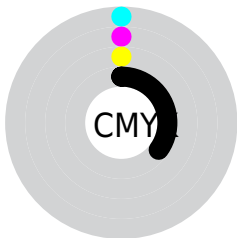
# Distribution



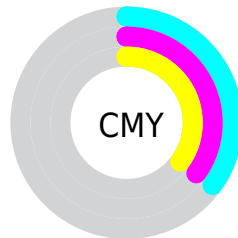
- Red (65%)
- Green (65%)
- Blue (65%)



- Red (65%)
- Yellow (65%)
- Blue (65%)



- Cyan (0%)
- Magenta (0%)
- Yellow (0%)
- Black (35%)



- Cyan (35%)
- Magenta (35%)
- Yellow (35%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.7301, 38.6429, 42.0822 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 36.7301, 38.6429, 42.0822 by changing the saturation by 10% instead.



■ 36.7301, 38.6429,  
42.0822

■ 36.7301, 38.6429,  
42.0822

323.5164,  
340.3699, 370.6333

■ 25.1713, 26.4820,  
28.8396

■ 69.4740, 73.0925,  
79.5955

■ 16.3341, 17.1846,  
18.7150

■ 91.3898, 96.1500,  
104.7032

■ 9.8533, 10.3662,  
11.2898

117.4887,  
123.6085, 134.6031

■ 5.3633, 5.6424,  
6.1455

148.1360,  
155.8524, 169.7136

■ 2.4989, 2.6289,  
2.8635

183.6971,  
193.2661, 210.4534

■ 0.8947, 0.9412,  
1.0254

224.5372,

■ 0.0000, 0.0000,

236.2340, 257.2409

0.0000

271.0219,  
285.1404, 310.4947

■ 36.7301, 38.6429,  
42.0822

■ 36.7301, 38.6429,  
42.0822

■ 32.0646, 36.3963,  
34.7505

■ 42.0292, 41.1980,  
50.3627

■ 28.0059, 34.4418,  
28.3312

■ 47.9810, 44.0675,  
59.6214

■ 24.5300, 32.7690,  
22.7895

■ 54.6079, 47.2634,  
69.8899

■ 21.6101, 31.3648,  
18.0871

■ 61.9300, 50.7954,  
81.1973

■ 19.2175, 30.2153,  
14.1833

■ 69.9668, 54.6730,  
93.5717

■ 17.3205, 29.3051,  
11.0336

■ 73.1094, 56.1189,  
101.5865

■ 15.8843, 28.6173,  
8.5893

■ 14.8696, 28.1329,  
6.7963

■ 14.2304, 27.8293,  
5.5921

# Harmonies

## Analogous

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



36.7288, 38.6429, 42.0830



36.7301, 38.6429, 42.0822



36.7311, 38.6429, 42.0796

# Triad

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



36.7301, 38.6429, 42.0822



36.7303, 38.6429, 42.0693



36.7263, 38.6429, 42.0752

# Complementary

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



36.7301, 38.6429, 42.0822



36.7315, 38.6439, 42.0841

# 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.



36.7267, 38.6429, 42.0715



36.7301, 38.6429, 42.0822



36.7291, 38.6429, 42.0681

# Square

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



36.7301, 38.6429, 42.0822



36.7312, 38.6429, 42.0722



36.7277, 38.6429, 42.0689



36.7266, 38.6429, 42.0789



# Rectangle

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



36.7301, 38.6429, 42.0822



36.7315, 38.6429, 42.0772



36.7277, 38.6429, 42.0689



36.7264, 38.6429, 42.0739

# Sweetspot

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



36.7312, 38.6446, 42.0830



65.7814, 69.2071, 75.3665



36.7318, 38.6448, 42.0830



14.7206, 15.4872, 16.8656



80.6108, 84.8088, 92.3568

# Same Dimension

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



36.7312, 38.6446, 42.0830



65.7814, 69.2071, 75.3665



36.7313, 38.6446, 42.0837



8.4577, 8.8982, 9.6901



10.6238, 21.1683, 3.7855



0.2641, 0.5173, 0.1217



# Inverse Universe

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



36.7315, 38.6439, 42.0841



65.7814, 69.2071, 75.3665



36.7314, 38.6439, 42.0834



8.4577, 8.8982, 9.6901



16.8447, 8.1466, 25.0573



0.4156, 0.2005, 0.6398



# Previews

## White Background



This preview shows how the XYZ color 36.7301, 38.6429, 42.0822 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 36.7301, 38.6429, 42.0822 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

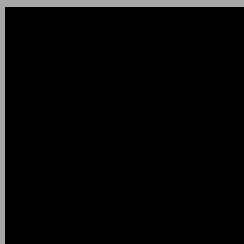
Any Text WCAG AAA ✓ Pass

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

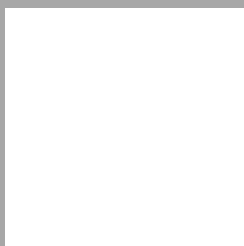


**XYZ 36.7301, 38.6429, 42.0822**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.7301, 38.6429, 42.0822.



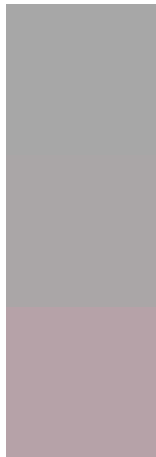
This preview shows how white text looks on a background with the XYZ color 36.7301, 38.6429,



# 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

36.7301, 38.6429, 42.0822

### Protanopia

37.1888, 38.6085, 42.0513

### Deuteranopia

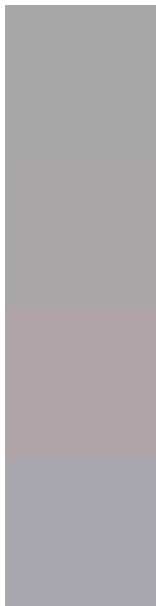
39.2796, 38.6129, 42.4286



## Tritanopia

37.8532, 38.5596, 47.5672

# Trichromacy



## Original Color

36.7301, 38.6429, 42.0822

## Protanomaly

36.9735, 38.4975, 42.0413

## Deuteranomaly

38.4748, 38.7252, 42.4927

## Tritanomaly

37.4246, 38.6533, 45.5327

# Monochromacy



## Original Color

36.7301, 38.6429, 42.0822

## Achromatopsia

36.7301, 38.6429, 42.0822

## Achromatomaly

36.7301, 38.6429, 42.0822

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.7301, 38.6429, 42.0822 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(167, 167, 167)` looks like.

```
.text, #text, p{  
    color:rgb(167, 167, 167)  
}
```

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(167, 167, 167) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(167, 167, 167) }
```

## Border

The CSS property to change the border of an element to XYZ 36.7301, 38.6429, 42.0822 is called "border". The border property can be set on classes, ids or directly on the HTML element.

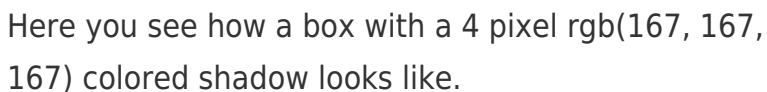
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(167, 167, 167) }
```

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

```
.border{ border-color:rgb(167, 167, 167) }
```

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



Here you see how a box with a 4 pixel `rgb(167, 167, 167)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(167, 167, 167); -webkit-box-shadow:4px 4px 4px 4px rgb(167, 167, 167); box-shadow:4px 4px 4px 4px rgb(167, 167, 167) }
```



# Background

The CSS property to change the background color of an element to XYZ 36.7301, 38.6429, 42.0822 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(167, 167, 167) }
```

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

```
.background{ background-color: rgb(167,  
167, 167) }
```

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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