

# Converting Colors

XYZ(38.7616, 41.6881, 40.6558)

Have a look what the booklet for  
XYZ(38.7616, 41.6881, 40.6558)  
contains.

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# **Color**

**XYZ(38.7602, 41.6871,  
40.6539)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	ACAEA3
RGB	172, 174, 163
RGB Percent	67%, 68%, 64%
CMY	0.3255, 0.3176, 0.3608
CMYK	0.01, 0.00, 0.06, 0.32
HSL	71°, 6%, 66%
HSV	71°, 6%, 68%
XYZ	38.7602, 41.6871, 40.6539
YIQ	172.1480, 2.3390, -3.8450

# Conversions

## Conversions Part 2

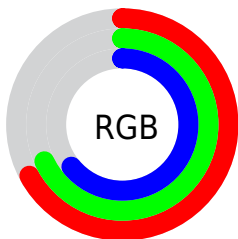
<b>Format</b>	<b>Color</b>
<b>RYB</b>	163, 174, 165
Decimal	11316899
CIELab	70.65, -2.73, 5.39
CIELCh	71, 6.040, 116.859
Yxy	41.6871, 0.3201, 0.3442
Android (android.graphics.Color)	4289506979 (0xFFACAEA3)
YUV	172.1480, -4.5100, -0.1298
Hunter-Lab	64.5655, -5.8320, 7.8637

# Details

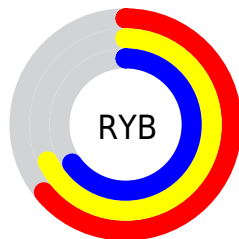
The XYZ color **38.7602, 41.6871, 40.6539** is a light color, and the websafe version is hex **999999**. A complement of this color would be **36.2558, 37.2508, 45.3258**, and the grayscale version is **39.3099, 41.3570, 45.0378**.

A 20% lighter version of the original color is **72.3528, 77.4315, 77.4620**, and **17.5745, 19.0598, 17.7916** is the 20% darker color. If you saturate the color by 10%, you get **36.6206, 40.7532, 32.9677**, and if you desaturate by 10%, it is **41.1332, 42.7189, 49.4726**.

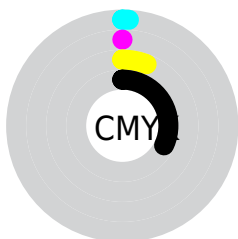
# Distribution



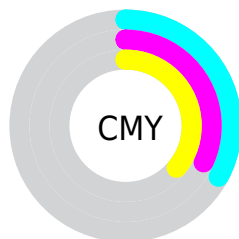
- Red (67%)
- Green (68%)
- Blue (64%)



- Red (64%)
- Yellow (68%)
- Blue (65%)



- Cyan (1%)
- Magenta (0%)
- Yellow (6%)
- Black (32%)



- Cyan (33%)
- Magenta (32%)
- Yellow (36%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.7602, 41.6871, 40.6539 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 38.7602, 41.6871, 40.6539 by changing the saturation by 10% instead.



■ 38.7602, 41.6871,  
40.6539

■ 38.7602, 41.6871,  
40.6539

332.0946,  
353.1842, 364.5057

■ 26.7531, 28.8564,  
27.7311

■ 72.5683, 77.7258,  
77.4062

■ 17.5235, 18.9722,  
17.8858

■ 95.0999, 101.7026,  
102.0727

■ 10.7061, 11.6502,  
10.6994

121.8705,  
130.1636, 131.4909

■ 5.9354, 6.5060,  
5.7535

153.2454,  
163.4931, 166.0793

■ 2.8461, 3.1551,  
2.6294

189.5899,  
202.0755, 206.2565

■ 1.0729, 1.2132,  
0.9076

231.2694,

■ 0.0023, 0.0725,

246.2952, 252.4409

0.0000

278.6491,  
296.5366, 305.0511

■ 0.0000, 0.0000,  
0.0000

■ 38.7602, 41.6871,  
40.6539

■ 38.7602, 41.6871,  
40.6539

■ 36.6206, 40.7532,  
32.9677

■ 41.1332, 42.7189,  
49.4726

■ 34.7022, 39.9084,  
26.3654

■ 43.7446, 43.8467,  
59.4642

■ 32.9967, 39.1506,  
20.7990

■ 46.6032, 45.0753,  
70.6707

■ 31.4940, 38.4759,  
16.2157

■ 49.7168, 46.4078,  
83.1311

■ 30.1831, 37.8796,  
12.5580

■ 53.0924, 47.8471,  
96.8825

■ 29.0517, 37.3571,  
9.7628

■ 54.6747, 48.5711,  
101.1012

■ 28.0864, 36.9028,  
7.7587

■ 55.4801, 48.9863,  
101.1389

■ 27.2712, 36.5104,  
6.4630

■ 56.3028, 49.4105,  
101.1774

■ 26.5848, 36.1713,  
5.7643

■ 57.1430, 49.8436,  
101.2168

# Harmonies

## Analogous

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



39.7278, 41.6871, 40.1122



38.7602, 41.6871, 40.6539



38.0345, 41.6871, 42.4465

# Triad

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



38.7602, 41.6871, 40.6539



38.5807, 41.6871, 50.1576



41.5729, 41.6871, 45.6925

# Complementary

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



38.7602, 41.6871, 40.6539



36.2558, 37.2508, 45.3258

# 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.



41.2538, 41.6871, 48.4668



38.7602, 41.6871, 40.6539



39.5171, 41.6871, 51.1119

# Square

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



38.7602, 41.6871, 40.6539



37.9321, 41.6871, 47.9231



40.4972, 41.6871, 50.4807



41.3621, 41.6871, 42.9481



# Rectangle

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



38.7602, 41.6871, 40.6539



37.7798, 41.6871, 44.1501



40.4972, 41.6871, 50.4807



41.5239, 41.6871, 46.6533

# Sweetspot

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



38.7614, 41.6889, 40.6548



72.0982, 76.3956, 80.3422



37.4929, 38.4944, 40.1051



16.0350, 16.9843, 17.8956



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832



# Same Dimension

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



38.7614, 41.6889, 40.6548



69.5690, 75.2946, 71.0546



37.6144, 41.0976, 40.6011



8.5175, 9.2554, 8.5509



19.1553, 26.1720, 4.0421



0.5695, 0.7470, 0.1142



# Inverse Universe

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



36.2558, 37.2508, 45.3258



63.7882, 65.0550, 81.8317



37.3883, 37.8346, 45.3788



7.7099, 7.8247, 10.0567



6.0037, 2.4549, 29.2019



0.2065, 0.0886, 0.8142



# Previews

## White Background



This preview shows how the XYZ color 38.7602, 41.6871, 40.6539 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

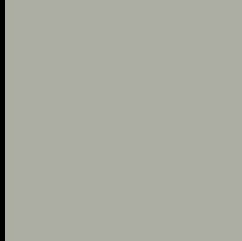
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 38.7602, 41.6871, 40.6539 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

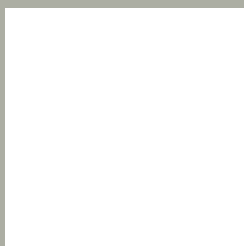
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 38.7602, 41.6871, 40.6539**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.7602, 41.6871, 40.6539.



This preview shows how white text looks on a background with the XYZ color 38.7602, 41.6871,



# 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

38.7602, 41.6871, 40.6539

### Protanopia

39.6342, 41.5787, 40.1190

### Deuteranopia

42.5119, 41.6552, 40.9216



## Tritanopia

40.8938, 41.7005, 51.2411

# Trichromacy



## Original Color

38.7602, 41.6871, 40.6539

## Protanomaly

39.3697, 41.7259, 40.1613

## Deuteranomaly

41.0831, 41.7441, 41.0141

## Tritanomaly

40.0446, 41.6383, 47.0007

# Monochromacy



## Original Color

38.7602, 41.6871, 40.6539

## Achromatopsia

39.2122, 41.2543, 44.9259

## Achromatomaly

39.1183, 41.5224, 43.4890

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.7602, 41.6871, 40.6539 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(172, 174, 163)` looks like.

```
.text, #text, p{  
    color:rgb(172, 174, 163)  
}
```

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(172, 174, 163) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 174, 163) }
```

## Border

The CSS property to change the border of an element to XYZ 38.7602, 41.6871, 40.6539 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(172, 174, 163) }
```



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

```
.border{ border-color:rgb(172, 174, 163) }
```

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

Here you see how a box with a 4 pixel `rgb(172, 174, 163)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 174, 163); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 174, 163);  
box-shadow:4px 4px 4px 4px rgb(172, 174,  
163) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.7602, 41.6871, 40.6539 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 174, 163) }
```

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

```
.background{ background-color: rgb(172,  
174, 163) }
```

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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