

# Converting Colors

XYZ(56.7441, 52.2682, 7.0980)

Have a look what the booklet for  
XYZ(56.7441, 52.2682, 7.0980)  
contains.

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# Color

**XYZ(56.7653, 52.3107,  
7.1051)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFB000
RGB	255, 176, 0
RGB Percent	100%, 69%, 0%
CMY	0.0000, 0.3098, 0.9999
CMYK	0.00, 0.31, 1.00, 0.00
HSL	41°, 100%, 50%
HSV	41°, 100%, 100%
XYZ	56.7653, 52.3107, 7.1051
YIQ	179.5570, 103.5800, -37.9880

# Conversions

## Conversions Part 2

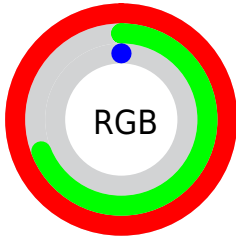
Format	Color
R <sub>Y</sub> B	114, 255, 0
Decimal	16756736
CIE Lab	77.47, 18.20, 80.63
CIE LCh	77, 82.657, 77.283
Yxy	52.3107, 0.4886, 0.4503
Android (android.graphics.Color)	4294946816 (0xFFFFB000)
YUV	179.5570, -88.5216, 66.1635
Hunter-Lab	72.3261, 13.5253, 44.8038

# Details

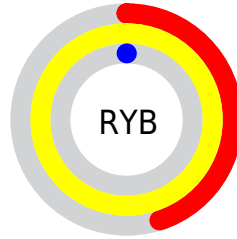
The XYZ color **56.7653, 52.3107, 7.1051** is a dark color, and the websafe version is hex **FF9900**. The color can be described as middle saturated orange. A complement of this color would be **20.8467, 12.8133, 95.9813**, and the grayscale version is **43.5677, 45.8366, 49.9161**.

A 20% lighter version of the original color is **71.3011, 79.0059, 19.2763**, and **28.9459, 25.6218, 3.4199** is the 20% darker color. If you saturate the color by 10%, you get **56.7653, 52.3112, 7.1052**, and if you desaturate by 10%, it is **58.5419, 55.5746, 8.5907**.

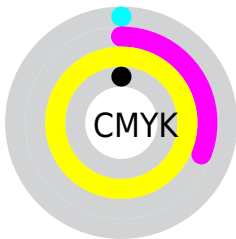
# Distribution



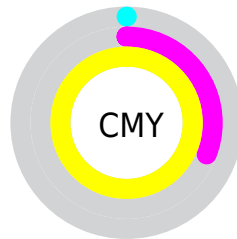
- Red (100%)
- Green (69%)
- Blue (0%)



- Red (45%)
- Yellow (100%)
- Blue (0%)



- Cyan (0%)
- Magenta (31%)
- Yellow (100%)
- Black (0%)



- Cyan (0%)
- Magenta (31%)
- Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 56.7653, 52.3107, 7.1051 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 56.7653, 52.3107, 7.1051 by changing the saturation by 10% instead.



56.7653, 52.3107,  
7.1051

56.7653, 52.3107,  
7.1051

402.5977,  
395.6349, 178.1981

41.0562, 37.2528,  
3.4485

99.2560, 93.5893,  
20.7008

28.5509, 25.4033,  
1.3279

126.7683,  
120.5788, 31.4769

18.8839, 16.3778,  
0.0845

158.9458,  
152.3142, 45.4633

11.6899, 9.7919,  
0.0000

196.1538,  
189.1800, 63.0785

6.6036, 5.2612,  
0.0000

238.7576,  
231.5606, 84.7411

3.2596, 2.4013,  
0.0000

287.1226,

1.2925, 0.8266,

279.8404, 110.8695

0.0000

341.6142,  
334.4037, 141.8823

■ 0.1776, 0.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 56.7653, 52.3107,  
7.1051

■ 56.7653, 52.3107,  
7.1051

■ 56.7653, 52.3112,  
7.1052

■ 58.5419, 55.5746,  
8.5907

■ 60.6447, 59.1134,  
11.3477

■ 63.1485, 62.9615,  
15.7567

■ 66.0987, 67.1394,  
22.0503

69.5336, 71.6645,  
30.4236

73.4869, 76.5526,  
41.0473

77.9889, 81.8178,  
54.0740

83.0672, 87.4733,  
69.6432

88.7475, 93.5314,  
87.8834

# Harmonies

## Analogous

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



73.5035, 52.3107, 13.7823



56.7653, 52.3107, 7.1051



41.1707, 52.3107, 7.5659

# Triad

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



56.7653, 52.3107, 7.1051



25.8494, 52.3107, 87.1656



75.7638, 52.3107, 139.5008

# Complementary

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



56.7653, 52.3107, 7.1051



20.8467, 12.8133, 95.9813

# 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.



59.3772, 52.3107, 188.3229



56.7653, 52.3107, 7.1051



31.7149, 52.3107, 148.6665

# Square

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



56.7653, 52.3107, 7.1051



25.4435, 52.3107, 39.7605



43.2827, 52.3107, 192.3628



85.9451, 52.3107, 78.5113



# Rectangle

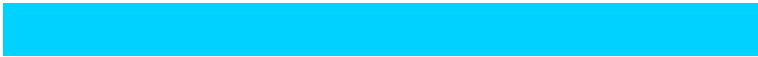
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



56.7653, 52.3107, 7.1051



33.3904, 52.3107, 11.8107



43.2827, 52.3107, 192.3628



70.6570, 52.3107, 159.0226

# Sweetspot

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



56.7665, 52.3134, 7.1061



77.9864, 81.8148, 54.0647



42.7161, 21.8507, 9.7040



16.2713, 17.0266, 10.3319



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

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



56.7665, 52.3134, 7.1061



56.7658, 52.3117, 7.1053



61.8432, 84.9658, 13.1411



19.0586, 20.0854, 19.0167



29.8003, 27.6119, 3.7590



2.9988, 2.8830, 0.3984



# Inverse Universe

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



20.8467, 12.8133, 95.9813



20.8458, 12.8116, 95.9819



19.2115, 7.8191, 95.1035



17.4620, 18.2956, 22.8610



11.0083, 6.9261, 50.1913



1.1641, 0.8588, 4.9177



# Previews

## White Background



This preview shows how the XYZ color 56.7653, 52.3107, 7.1051 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 56.7653, 52.3107, 7.1051 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 56.7653, 52.3107, 7.1051**

## **Background**



This preview shows how black text looks on a background with the XYZ color 56.7653, 52.3107, 7.1051.



This preview shows how white text looks on a background with the XYZ color 56.7653, 52.3107,



# 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

56.7653, 52.3107, 7.1051

### Protanopia

47.2621, 52.3356, 8.1010

### Deuteranopia

53.6901, 52.5106, 7.3058



## Tritanopia

63.0946, 52.1118, 48.8526

# Trichromacy



## Original Color

56.7653, 52.3107, 7.1051

## Protanomaly

50.2468, 51.9627, 7.6687

## Deuteranomaly

54.6790, 52.4167, 7.2355

## Tritanomaly

58.5954, 51.2017, 22.4174

# Monochromacy



## Original Color

56.7653, 52.3107, 7.1051

## Achromatopsia

43.3819, 45.6411, 49.7032

## Achromatomaly

44.9467, 46.7434, 22.8731

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 56.7653, 52.3107, 7.1051 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(255, 176, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 176, 0)  
}
```

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(255, 176, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 176, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 56.7653, 52.3107, 7.1051 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(255, 176, 0) }
```



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

```
.border{ border-color:rgb(255, 176, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 176, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 176, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 176, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 176,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 56.7653, 52.3107, 7.1051 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 176, 0) }
```

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

```
.background{ background-color: rgb(255,  
176, 0) }
```

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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