

# Converting Colors

XYZ(45.4679, 42.2032, 7.4769)

Have a look what the booklet for  
XYZ(45.4679, 42.2032, 7.4769)  
contains.

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# Color

**XYZ(45.3919, 42.2813,  
7.5190)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E5A125
RGB	229, 161, 37
RGB Percent	90%, 63%, 15%
CMY	0.1020, 0.3686, 0.8549
CMYK	0.00, 0.30, 0.84, 0.10
HSL	39°, 79%, 52%
HSV	39°, 84%, 90%
XYZ	45.3919, 42.2813, 7.5190
YIQ	167.1960, 80.3320, -24.1480

# Conversions

## Conversions Part 2

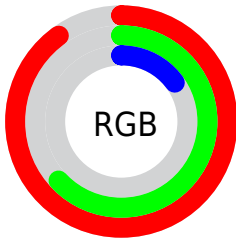
Format	Color
<a href="#">RYB</a>	<a href="#">142, 229, 37</a>
Decimal	<a href="#">15048997</a>
CIELab	<a href="#">71.06, 15.55, 68.06</a>
CIELCh	<a href="#">71, 69.811, 77.131</a>
Yxy	<a href="#">42.2813, 0.4768, 0.4442</a>
Android (android.graphics.Color)	<a href="#">4293239077</a> ( <a href="#">0xFFE5A125</a> )
YUV	<a href="#">167.1960, -64.1866, 54.2021</a>
Hunter-Lab	<a href="#">65.0241, 10.8149, 38.6609</a>

# Details

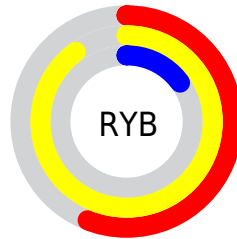
The XYZ color **45.3919, 42.2813, 7.5190** is a dark color, and the websafe version is hex **CC9900**. The color can be described as middle washed orange. A complement of this color would be **19.9574, 16.1534, 76.1943**, and the grayscale version is **37.1033, 39.0356, 42.5097**.

A 20% lighter version of the original color is **67.8614, 71.1980, 20.9924**, and **21.7244, 19.4767, 2.6144** is the 20% darker color. If you saturate the color by 10%, you get **43.7671, 39.4385, 5.7248**, and if you desaturate by 10%, it is **47.3356, 45.4023, 10.5306**.

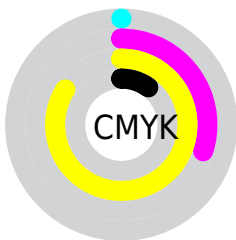
# Distribution



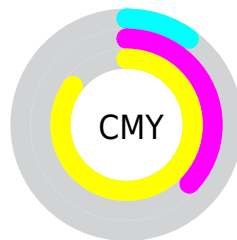
- Red (90%)
- Green (63%)
- Blue (15%)



- Red (56%)
- Yellow (90%)
- Blue (15%)



- Cyan (0%)
- Magenta (30%)
- Yellow (84%)
- Black (10%)




- Cyan (10%)
- Magenta (37%)
- Yellow (85%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.3919, 42.2813, 7.5190 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 45.3919, 42.2813, 7.5190 by changing the saturation by 10% instead.




 45.3919, 42.2813,  
7.5190


 45.3919, 42.2813,  
7.5190


359.1155,  
355.6477, 181.7005


 31.9688, 29.3216,  
3.7054


 82.5416, 78.6252,  
21.5403

 21.4931, 19.3243,  
1.4652


 106.9990,  
102.7782, 32.5852

 13.5994, 11.9048,  
0.1918


 135.8652,  
131.4311, 46.8775

 7.9224, 6.6789,  
0.0000

 169.5055,  
164.9682, 64.8358

 4.0967, 3.2621,  
0.0000

 208.2853,  
203.7741, 86.8788

 1.7570, 1.2701,  
0.0000

 252.5700,

 0.4916, 0.1178,

248.2330, 113.4248

0.0000

302.7250,  
298.7294, 144.8925

■ 0.0000, 0.0000,  
0.0000

■ 45.3919, 42.2813,  
7.5190

■ 45.3919, 42.2813,  
7.5190

■ 43.7671, 39.4385,  
5.7248

■ 47.3356, 45.4023,  
10.5306

■ 42.8872, 37.8066,  
5.0370

■ 49.6335, 48.8130,  
14.9502

■ 52.3184, 52.5310,  
20.9375

■ 55.4178, 56.5696,  
28.6299

■ 58.9563, 60.9414,  
38.1494

■ 62.9565, 65.6578,  
49.6070

■ 67.4390, 70.7293,  
63.1046

■ 72.4234, 76.1662,  
78.7372

■ 77.9277, 81.9780,  
96.5934

# Harmonies

## Analogous

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



57.4574, 42.2813, 13.1843



45.3919, 42.2813, 7.5190



33.9362, 42.2813, 7.8945

# Triad

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



45.3919, 42.2813, 7.5190



22.3390, 42.2813, 67.6672



58.9674, 42.2813, 105.0181

# Complementary

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



45.3919, 42.2813, 7.5190



19.9574, 16.1534, 76.1943

# 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.



47.1620, 42.2813, 138.7386



45.3919, 42.2813, 7.5190



26.7788, 42.2813, 110.9815

# Square

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



45.3919, 42.2813, 7.5190



22.0484, 42.2813, 33.1624



35.3962, 42.2813, 141.3344



66.2561, 42.2813, 61.8753



# Rectangle

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



45.3919, 42.2813, 7.5190



28.1123, 42.2813, 11.4691



35.3962, 42.2813, 141.3344



55.3024, 42.2813, 118.5784

# Sweetspot

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



45.3928, 42.2834, 7.5198



79.6475, 82.9845, 61.2543



35.6497, 19.0514, 15.8198



16.6529, 17.3003, 11.9679



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.



45.3928, 42.2834, 7.5198



54.6400, 48.0599, 6.3967



53.0908, 68.9246, 12.2563



15.1497, 15.9132, 15.1775



24.6384, 21.8509, 2.9191



1.9074, 1.7881, 0.2446



# Inverse Universe

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



19.9574, 16.1534, 76.1943



21.7320, 14.5841, 96.2773



16.8293, 8.0244, 74.7901



13.9983, 14.7181, 18.2474



9.8756, 6.8133, 43.1778



0.8148, 0.6736, 3.2190



# Previews

## White Background



This preview shows how the XYZ color 45.3919, 42.2813, 7.5190 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 45.3919, 42.2813, 7.5190 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 45.3919, 42.2813, 7.5190**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.3919, 42.2813, 7.5190.



This preview shows how white text looks on a background with the XYZ color 45.3919, 42.2813,



# 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

45.3919, 42.2813, 7.5190

### Protanopia

38.4952, 42.5558, 8.2830

### Deuteranopia

43.2737, 42.2473, 7.4639



## Tritanopia

51.9314, 42.2188, 39.1302

# Trichromacy



**Original Color**

45.3919, 42.2813, 7.5190

**Protanomaly**

40.7702, 42.3125, 8.0258

**Deuteranomaly**

44.0253, 42.3663, 7.5262

**Tritanomaly**

48.3123, 41.6958, 22.0248

# Monochromacy



**Original Color**

45.3919, 42.2813, 7.5190

**Achromatopsia**

36.7301, 38.6429, 42.0822

**Achromatomaly**

38.0805, 39.2135, 23.3312

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.3919, 42.2813, 7.5190 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(229, 161, 37)` looks like.

```
.text, #text, p{  
    color:rgb(229, 161, 37)  
}
```

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(229, 161, 37) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(229, 161, 37) }
```

## Border

The CSS property to change the border of an element to XYZ 45.3919, 42.2813, 7.5190 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(229, 161, 37) }
```



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

```
.border{ border-color:rgb(229, 161, 37) }
```

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

Here you see how a box with a 4 pixel `rgb(229, 161, 37)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(229, 161, 37); -webkit-box-  
shadow:4px 4px 4px 4px rgb(229, 161, 37);  
box-shadow:4px 4px 4px 4px rgb(229, 161,  
37) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.3919, 42.2813, 7.5190 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(229, 161, 37) }
```

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

```
.background{ background-color: rgb(229,  
161, 37) }
```

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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