

# Converting Colors

XYZ(49.7737, 51.0317, 12.2836)

Have a look what the booklet for  
XYZ(49.7737, 51.0317, 12.2836)  
contains.

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# **Color**

**XYZ(49.7732, 50.9935,  
12.2204)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E3B841
RGB	227, 184, 65
RGB Percent	89%, 72%, 25%
CMY	0.1098, 0.2784, 0.7451
CMYK	0.00, 0.19, 0.71, 0.11
HSL	44°, 74%, 57%
HSV	44°, 71%, 89%
XYZ	49.7732, 50.9935, 12.2204
YIQ	183.2910, 63.8270, -27.8930

# Conversions

## Conversions Part 2

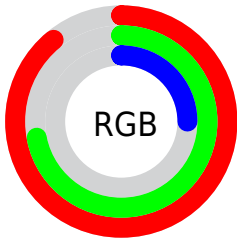
<b>Format</b>	<b>Color</b>
<b>RYB</b>	124, 227, 65
Decimal	14923841
CIELab	76.68, 3.55, 63.31
CIELCh	77, 63.411, 86.787
Yxy	50.9935, 0.4405, 0.4513
Android (android.graphics.Color)	4293113921 (0xFFE3B841)
YUV	183.2910, -58.3175, 38.3328
Hunter-Lab	71.4097, -0.5510, 39.8405

# Details

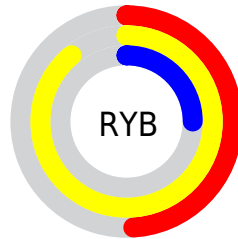
The XYZ color **49.7732, 50.9935, 12.2204** is a light color, and the websafe version is hex **FFCC66**. The color can be described as light muted orange. A complement of this color would be **21.4075, 17.3945, 74.9019**, and the grayscale version is **45.4566, 47.8239, 52.0802**.

A 20% lighter version of the original color is **75.7299, 84.9121, 29.8510**, and **24.2647, 24.5574, 3.4612** is the 20% darker color. If you saturate the color by 10%, you get **48.0185, 48.3336, 9.0176**, and if you desaturate by 10%, it is **51.8477, 53.8706, 16.8337**.

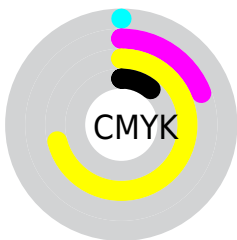
# Distribution



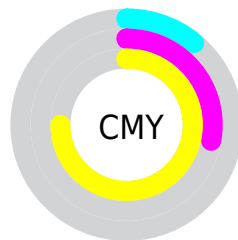
- Red (89%)
- Green (72%)
- Blue (25%)



- Red (49%)
- Yellow (89%)
- Blue (25%)



- Cyan (0%)
- Magenta (19%)
- Yellow (71%)
- Black (11%)



- Cyan (11%)
- Magenta (28%)
- Yellow (75%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.7732, 50.9935, 12.2204 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 49.7732, 50.9935, 12.2204 by changing the saturation by 10% instead.



■ 49.7732, 50.9935,  
12.2204

■ 49.7732, 50.9935,  
12.2204

376.2450,  
390.5385, 216.8884

■ 35.4503, 36.2034,  
6.7696

■ 89.0326, 91.6452,  
30.5663

■ 24.1781, 24.5914,  
3.2422

■ 114.6998,  
118.2756, 44.2984

■ 15.5912, 15.7729,  
1.2196

■ 144.8791,  
149.6215, 61.6281

■ 9.3244, 9.3636,  
0.0000

■ 179.9359,  
186.0674, 82.9739

■ 5.0122, 4.9791,  
0.0000

■ 220.2355,  
227.9977, 108.7542

■ 2.2892, 2.2350,  
0.0000

266.1433,

■ 0.7891, 0.7390,

275.7967, 139.3878

0.0000

318.0247,  
329.8488, 175.2930

■ 0.0000, 0.0000,  
0.0000

■ 49.7732, 50.9935,  
12.2204

■ 49.7732, 50.9935,  
12.2204

■ 48.0185, 48.3336,  
9.0176

■ 51.8477, 53.8706,  
16.8337

■ 46.5455, 45.8686,  
7.0438

■ 54.2673, 56.9701,  
23.0035

■ 45.4521, 43.8782,  
6.0738

■ 57.0584, 60.3056,  
30.8607

■ 60.2438, 63.8870,  
40.5216

■ 63.8441, 67.7237,  
52.0920

■ 67.8784, 71.8243,  
65.6698

■ 72.3646, 76.1968,  
81.3457

■ 77.3193, 80.8489,  
99.2053

■ 80.3690, 84.8321,  
106.7461

# Harmonies

## Analogous

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



62.2422, 50.9935, 16.5485



49.7732, 50.9935, 12.2204



38.7920, 50.9935, 14.9495

# Triad

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



49.7732, 50.9935, 12.2204



30.6449, 50.9935, 90.9601



70.4570, 50.9935, 100.1740

# Complementary

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



49.7732, 50.9935, 12.2204



21.4075, 17.3945, 74.9019

# 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.



59.6319, 50.9935, 137.9084



49.7732, 50.9935, 12.2204



36.8921, 50.9935, 131.2233

# Square

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



49.7732, 50.9935, 12.2204



28.8820, 50.9935, 51.8996



47.1854, 50.9935, 151.1289



75.3587, 50.9935, 59.3118



# Rectangle

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



49.7732, 50.9935, 12.2204



33.5168, 50.9935, 21.4459



47.1854, 50.9935, 151.1289



67.3111, 50.9935, 114.1995

# Sweetspot

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



49.7744, 50.9960, 12.2214



83.2282, 88.2833, 68.1901



36.2865, 21.1989, 16.4232



17.5228, 18.5914, 13.6410



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.



49.7744, 50.9960, 12.2214



61.4743, 61.2264, 10.2230



49.4592, 66.1641, 15.1658



15.2610, 16.1360, 15.2147



26.6083, 25.7908, 3.5757



2.0414, 2.0560, 0.2893



# Inverse Universe

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



21.4075, 17.3945, 74.9019



22.7611, 15.5777, 96.4149



21.3265, 12.1990, 73.9033



13.8924, 14.5062, 18.2121



9.1177, 5.2975, 42.9251



0.7484, 0.5407, 3.1969



# Previews

## White Background



This preview shows how the XYZ color 49.7732, 50.9935, 12.2204 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 49.7732, 50.9935, 12.2204 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 49.7732, 50.9935, 12.2204

## Background



This preview shows how black text looks on a background with the XYZ color 49.7732, 50.9935, 12.2204.



This preview shows how white text looks on a background with the XYZ color 49.7732, 50.9935,



# 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

49.7732, 50.9935, 12.2204

### Protanopia

46.5780, 51.2292, 12.7435

### Deuteranopia

52.2297, 51.0404, 12.2532



## Tritanopia

58.1016, 50.8407, 52.6499

# Trichromacy



## Original Color

49.7732, 50.9935, 12.2204

## Protanomaly

47.5819, 51.1115, 12.5119

## Deuteranomaly

51.1115, 50.7647, 12.2590

## Tritanomaly

53.9373, 50.2974, 32.0649

# Monochromacy



## Original Color

49.7732, 50.9935, 12.2204

## Achromatopsia

45.0092, 47.3531, 51.5676

## Achromatomaly

45.2203, 47.9025, 31.6737

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.7732, 50.9935, 12.2204 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(227, 184, 65)` looks like.

```
.text, #text, p{  
    color:rgb(227, 184, 65)  
}
```

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(227, 184, 65) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 184, 65) }
```

## Border

The CSS property to change the border of an element to XYZ 49.7732, 50.9935, 12.2204 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(227, 184, 65) }
```



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

```
.border{ border-color:rgb(227, 184, 65) }
```

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

Here you see how a box with a 4 pixel rgb(227, 184, 65) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 184, 65); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 184, 65);  
box-shadow:4px 4px 4px 4px rgb(227, 184,  
65) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.7732, 50.9935, 12.2204 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(227, 184, 65) }
```

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

```
.background{ background-color: rgb(227,  
184, 65) }
```

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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