

# Converting Colors

XYZ(28.7210, 42.5443, 6.6981)

Have a look what the booklet for  
XYZ(28.7210, 42.5443, 6.6981)  
contains.

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# Color

**XYZ(28.6225, 42.4125,  
6.6779)**

# Conversions

## Conversions Part 1

Format	Color
Hex	87BF00
RGB	135, 191, 0
RGB Percent	53%, 75%, 0%
CMY	0.4706, 0.2510, 0.9999
CMYK	0.29, 0.00, 1.00, 0.25
HSL	78°, 100%, 37%
HSV	78°, 100%, 75%
XYZ	28.6225, 42.4125, 6.6779
YIQ	152.4820, 27.9350, -71.2730

# Conversions

## Conversions Part 2

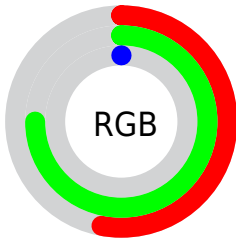
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 191, 56
Decimal	8896256
CIELab	71.15, -40.53, 71.39
CIELCh	71, 82.094, 119.581
Yxy	42.4125, 0.3683, 0.5458
Android (android.graphics.Color)	4287086336 (0xFF87BF00)
YUV	152.4820, -75.1736, -15.3317
Hunter-Lab	65.1249, -35.5175, 39.5078

# Details

The XYZ color **28.6225, 42.4125, 6.6779** is a dark color, and the websafe version is hex **99CC00**. A complement of this color would be **11.0370, 4.6038, 49.5996**, and the grayscale version is **30.3627, 31.9439, 34.7869**.

A 20% lighter version of the original color is **57.0077, 79.0514, 19.8433**, and **12.0875, 19.5110, 3.1289** is the 20% darker color. If you saturate the color by 10%, you get **28.6223, 42.4138, 6.6781**, and if you desaturate by 10%, it is **29.6671, 42.9387, 7.3460**.

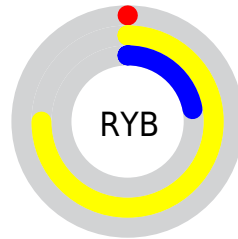
# Distribution



Red (53%)

Green (75%)

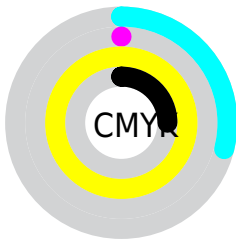
Blue (0%)



Red (0%)

Yellow (75%)

Blue (22%)

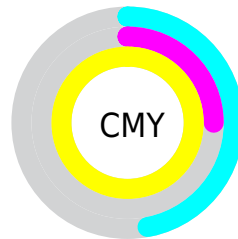


Cyan (29%)

Magenta (0%)

Yellow (100%)

Black (25%)



Cyan (47%)

Magenta (25%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 28.6225, 42.4125, 6.6779 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 28.6225, 42.4125, 6.6779 by changing the saturation by 10% instead.



■ 28.6225, 42.4125,  
6.6779

■ 28.6225, 42.4125,  
6.6779

287.4561,  
356.1901, 174.4879

■ 18.9383, 29.4244,  
3.1861

■ 56.8785, 78.8235,  
19.8240

■ 11.7294, 19.4021,  
1.1904

■ 76.1810, 103.0153,  
30.3153

■ 6.6306, 11.9612,  
0.0000

■ 99.4203, 131.7104,  
43.9769

■ 3.2764, 6.7173,  
0.0000

■ 126.9617,  
165.2933, 61.2273

■ 1.3016, 3.2859,  
0.0000

■ 159.1706,  
204.1483, 82.4851

■ 0.1844, 1.2828,  
0.0000

■ 196.4124,

■ 0.0000, 0.1278,

248.6598, 108.1688

0.0000

239.0525,  
299.2123, 138.6969

■ 0.0000, 0.0000,  
0.0000

■ 28.6225, 42.4125,  
6.6779

■ 28.6225, 42.4125,  
6.6779

■ 28.6223, 42.4138,  
6.6781

■ 29.6671, 42.9387,  
7.3460

■ 30.8752, 43.5344,  
8.6283

■ 32.2904, 44.2185,  
10.7464

■ 33.9346, 45.0000,  
13.8123

■ 35.8265, 45.8863,  
17.9205

■ 37.9825, 46.8842,  
23.1542

■ 40.4174, 47.9995,  
29.5884

■ 43.1449, 49.2379,  
37.2913

■ 46.1775, 50.6045,  
46.3261

# Harmonies

## Analogous

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



40.5056, 42.4125, 4.3125



28.6225, 42.4125, 6.6779



21.5468, 42.4125, 17.4806

# Triad

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



28.6225, 42.4125, 6.6779



28.3566, 42.4125, 147.0267



72.9347, 42.4125, 46.7364

# Complementary

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



28.6225, 42.4125, 6.6779



11.0370, 4.6038, 49.5996

# 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.



67.6662, 42.4125, 96.0810



28.6225, 42.4125, 6.6779



40.1186, 42.4125, 170.7430

# Square

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



28.6225, 42.4125, 6.6779



21.4196, 42.4125, 94.5252



54.8158, 42.4125, 148.2292



67.9399, 42.4125, 17.9877



# Rectangle

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



28.6225, 42.4125, 6.6779



19.5058, 42.4125, 33.7995



54.8158, 42.4125, 148.2292



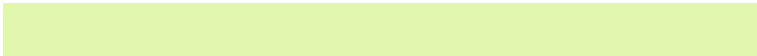
72.2906, 42.4125, 61.2654

# Sweetspot

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



28.6235, 42.4144, 6.6788



72.1603, 85.8611, 52.3784



22.8124, 13.7277, 1.4480



15.4256, 18.6623, 10.3724



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

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



28.6235, 42.4144, 6.6788



51.0058, 75.8285, 11.9481



19.5624, 37.7432, 6.2548



10.0423, 10.9762, 10.1660



18.8927, 27.9154, 4.3925



0.8023, 1.1256, 0.1750



# Inverse Universe

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



11.0370, 4.6038, 49.5996



19.5551, 8.1354, 88.8187



21.9134, 10.2107, 50.1086



9.2724, 9.3573, 11.9896



7.3233, 3.0614, 32.5978



0.3544, 0.1547, 1.2800



# Previews

## White Background



This preview shows how the XYZ color 28.6225, 42.4125, 6.6779 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 28.6225, 42.4125, 6.6779 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

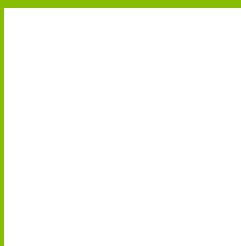
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 28.6225, 42.4125, 6.6779**

## **Background**



This preview shows how black text looks on a background with the XYZ color 28.6225, 42.4125, 6.6779.



This preview shows how white text looks on a background with the XYZ color 28.6225, 42.4125,



# 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

28.6225, 42.4125, 6.6779

### Protanopia

37.9010, 42.0079, 6.1107

### Deuteranopia

42.9870, 42.0977, 7.5291



## Tritanopia

38.5717, 42.4189, 56.0239

# Trichromacy



## Original Color

28.6225, 42.4125, 6.6779

## Protanomaly

33.7768, 41.6412, 6.2573

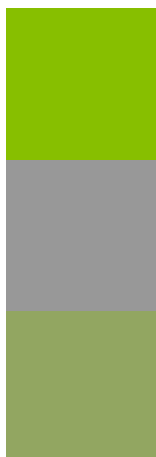
## Deuteranomaly

36.0297, 41.0253, 6.8303

## Tritanomaly

32.3004, 41.3831, 24.6977

# Monochromacy



## Original Color

28.6225, 42.4125, 6.6779

## Achromatopsia

29.8446, 31.3989, 34.1934

## Achromatomaly

27.6479, 34.2465, 16.4623

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 28.6225, 42.4125, 6.6779 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(135, 191, 0)` looks like.

```
.text, #text, p{  
    color:rgb(135, 191, 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(135, 191, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 191, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 28.6225, 42.4125, 6.6779 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(135, 191, 0) }
```



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

```
.border{ border-color:rgb(135, 191, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(135, 191, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 191, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 191, 0);  
box-shadow:4px 4px 4px 4px rgb(135, 191,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 28.6225, 42.4125, 6.6779 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 191, 0) }
```

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

```
.background{ background-color: rgb(135,  
191, 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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