

# Converting Colors

XYZ(42.1404, 30.2417, 70.6077)

Have a look what the booklet for  
XYZ(42.1404, 30.2417, 70.6077)  
contains.

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# Color

**XYZ(42.0083, 30.1495,  
70.6232)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C378DB
RGB	195, 120, 219
RGB Percent	76%, 47%, 86%
CMY	0.2353, 0.5294, 0.1412
CMYK	0.11, 0.45, 0.00, 0.14
HSL	285°, 58%, 66%
HSV	285°, 45%, 86%
XYZ	42.0083, 30.1495, 70.6232
YIQ	153.7110, 12.9210, 46.6890

# Conversions

## Conversions Part 2

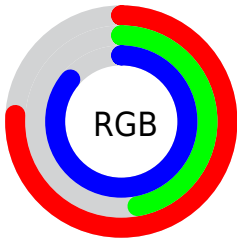
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	195, 120, 219
Decimal	12810459
CIE Lab	61.78, 45.59, -39.02
CIE LCh	62, 60.007, 319.444
Yxy	30.1495, 0.2942, 0.2112
Android (android.graphics.Color)	4291000539 (0xFFC378DB)
YUV	153.7110, 32.1875, 36.2105
Hunter-Lab	54.9086, 40.4731, -37.8226

# Details

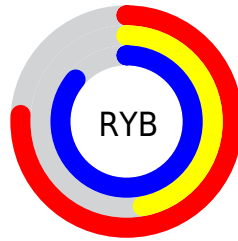
The XYZ color **42.0083, 30.1495, 70.6232** is a light color, and the websafe version is hex **CC66CC**. A complement of this color would be **40.2242, 57.9491, 26.8359**, and the grayscale version is **30.4491, 32.0349, 34.8860**.

A 20% lighter version of the original color is **73.6941, 58.3748, 101.9911**, and **19.4154, 12.3035, 36.4735** is the 20% darker color. If you saturate the color by 10%, you get **38.3222, 24.7770, 69.7809**, and if you desaturate by 10%, it is **46.3475, 36.7542, 71.6698**.

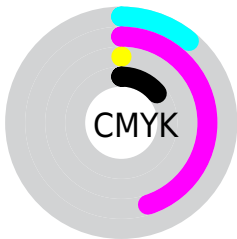
# Distribution



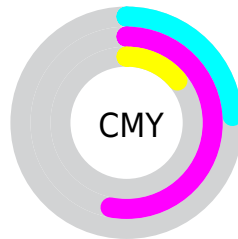
- Red (76%)
- Green (47%)
- Blue (86%)



- Red (76%)
- Yellow (47%)
- Blue (86%)



- Cyan (11%)
- Magenta (45%)
- Yellow (0%)
- Black (14%)




- Cyan (24%)
- Magenta (53%)
- Yellow (14%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.0083, 30.1495, 70.6232 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 42.0083, 30.1495, 70.6232 by changing the saturation by 10% instead.




 42.0083, 30.1495,  
70.6232


 42.0083, 30.1495,  
70.6232


345.5084,  
302.6007, 481.5833


 29.2989, 19.9521,  
51.5548


 77.4773, 59.8985,  
121.7865

 19.4525, 12.3602,  
36.2706


 100.9676, 80.2189,  
154.7185

 12.1036, 6.9895,  
24.3519


 128.7822,  
104.6824, 193.1088

 6.8870, 3.4555,  
15.3802

161.2866,  
133.6735, 237.3758

 3.4372, 1.3739,  
8.9371

198.8461,  
167.5764, 287.9383

 1.3890, 0.1974,  
4.6039

241.8259,

 0.2484, 0.0000,

206.7757, 345.2147

1.9622

290.5916,  
251.6556, 409.6235

■ 0.0000, 0.0000,  
0.5319

■ 0.0000, 0.0000,  
0.0000

■ 42.0083, 30.1495,  
70.6232

■ 42.0083, 30.1495,  
70.6232

■ 38.3222, 24.7770,  
69.7809

■ 46.3475, 36.7542,  
71.6698

■ 35.2440, 20.5493,  
69.1272


■ 51.3749, 44.6629,  
72.9314


■ 32.7273, 17.3738,  
68.6469


■ 57.1266, 53.9462,  
74.4201


■ 30.7171, 15.1412,  
68.3219


■ 63.6351, 64.6688,  
76.1467


 29.1462, 13.7176,  
68.1299


 70.9310, 76.8909,  
78.1213

 28.4933, 13.2118,  
68.0667

 79.0431, 90.6694,  
80.3532

 81.8786, 93.8180,  
80.8115

 83.6299, 94.7208,  
80.8935

 85.4337, 95.6507,  
80.9779

# Harmonies

## Analogous

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



34.0894, 30.1495, 94.3793



42.0083, 30.1495, 70.6232



46.6001, 30.1495, 41.5804

# Triad

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



42.0083, 30.1495, 70.6232



31.5684, 30.1495, 5.7688



16.4580, 30.1495, 49.7901

# Complementary

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



42.0083, 30.1495, 70.6232



40.2242, 57.9491, 26.8359

# 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.



16.0353, 30.1495, 25.3985



42.0083, 30.1495, 70.6232



23.8333, 30.1495, 6.3413

# Square

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



42.0083, 30.1495, 70.6232



39.8699, 30.1495, 9.4395



18.4835, 30.1495, 11.7033



19.7709, 30.1495, 78.9797



# Rectangle

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



42.0083, 30.1495, 70.6232



46.6718, 30.1495, 26.1150



18.4835, 30.1495, 11.7033



16.0001, 30.1495, 40.6020

# Sweetspot

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



42.0094, 30.1508, 70.6239



81.5872, 77.6951, 105.3043



30.6203, 29.2833, 71.0567



17.0603, 15.9729, 22.4339



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.



42.0094, 30.1508, 70.6239



54.4538, 35.4820, 98.5864



45.6965, 32.4005, 55.0326



13.2899, 13.1076, 16.4817



16.9982, 7.8871, 40.3649



1.1766, 0.5498, 2.6186



# Inverse Universe

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



40.9649, 30.5078, 30.1163



53.1964, 36.2766, 33.3410



38.1698, 56.6935, 35.6196



13.1848, 13.1030, 14.2345



17.7407, 9.0973, 3.0148

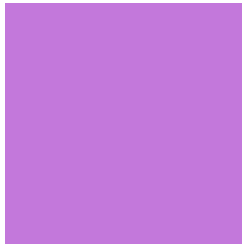


1.1834, 0.6030, 0.3745



# Previews

## White Background



This preview shows how the XYZ color 42.0083, 30.1495, 70.6232 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

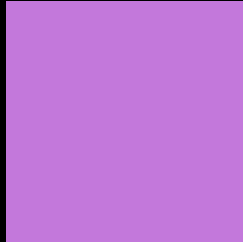
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.0083, 30.1495, 70.6232 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

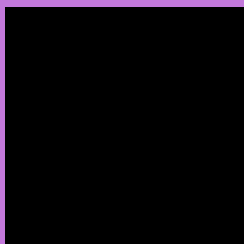
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 42.0083, 30.1495, 70.6232**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.0083, 30.1495, 70.6232.



This preview shows how white text looks on a background with the XYZ color 42.0083, 30.1495,



# 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

42.0083, 30.1495, 70.6232

### Protanopia

32.9880, 30.4133, 88.1361

### Deuteranopia

31.1850, 30.3948, 67.8415



## Tritanopia

34.0782, 30.0292, 31.6039

# Trichromacy



**Original Color**

42.0083, 30.1495, 70.6232

**Protanomaly**

34.9523, 29.5826, 81.7097

**Deuteranomaly**

34.0608, 29.6189, 68.8876

**Tritanomaly**

36.5117, 29.8012, 43.3630

# Monochromacy



**Original Color**

42.0083, 30.1495, 70.6232

**Achromatopsia**

30.7148, 32.3143, 35.1903

**Achromatomaly**

34.0711, 30.9954, 46.3064

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.0083, 30.1495, 70.6232 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(195, 120, 219)` looks like.

```
.text, #text, p{  
    color:rgb(195, 120, 219)  
}
```

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(195, 120, 219) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(195, 120, 219) }
```

## Border

The CSS property to change the border of an element to XYZ 42.0083, 30.1495, 70.6232 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".

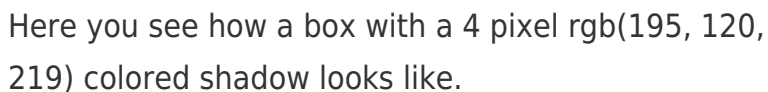
```
.border, #border, table{ border:4px solid rgb(195, 120, 219) }
```



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

```
.border{ border-color:rgb(195, 120, 219) }
```

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



Here you see how a box with a 4 pixel `rgb(195, 120, 219)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(195, 120, 219); -webkit-box-  
shadow:4px 4px 4px 4px rgb(195, 120, 219);  
box-shadow:4px 4px 4px 4px rgb(195, 120,  
219) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.0083, 30.1495, 70.6232 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(195, 120, 219) }
```

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

```
.background{ background-color: rgb(195,  
120, 219) }
```

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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