

# Converting Colors

XYZ(42.1820, 29.0870, 79.8080)

Have a look what the booklet for  
XYZ(42.1820, 29.0870, 79.8080)  
contains.

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# Color

**XYZ(42.1821, 29.1640,  
79.7499)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BF73E8
RGB	191, 115, 232
RGB Percent	75%, 45%, 91%
CMY	0.2510, 0.5490, 0.0902
CMYK	0.18, 0.50, 0.00, 0.09
HSL	279°, 72%, 68%
HSV	279°, 50%, 91%
XYZ	42.1821, 29.1640, 79.7499
YIQ	151.0620, 7.7390, 52.4990

# Conversions

## Conversions Part 2

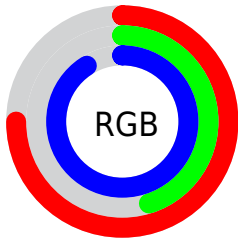
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">191, 115, 232</a>
Decimal	<a href="#">12547048</a>
CIELab	<a href="#">60.93, 49.81, -47.65</a>
CIELCh	<a href="#">61, 68.932, 316.269</a>
Yxy	<a href="#">29.1640, 0.2792, 0.1930</a>
Android (android.graphics.Color)	<a href="#">4290737128</a> <a href="#">(0xFFBF73E8)</a>
YUV	<a href="#">151.0620, 39.9024, 35.0256</a>
Hunter-Lab	<a href="#">54.0037, 44.9192, -49.7538</a>

# Details

The XYZ color **42.1821, 29.1640, 79.7499** is a light color, and the websafe version is hex **9966CC**. A complement of this color would be **45.6621, 66.0195, 26.5571**, and the grayscale version is **29.2753, 30.7999, 33.5411**.

A 20% lighter version of the original color is **71.3049, 55.7357, 101.6076**, and **19.6057, 11.8405, 42.3264** is the 20% darker color. If you saturate the color by 10%, you get **37.8739, 23.4982, 78.8838**, and if you desaturate by 10%, it is **47.2716, 36.2219, 80.8444**.

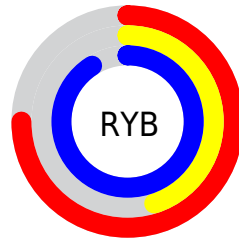
# Distribution



Red (75%)

Green (45%)

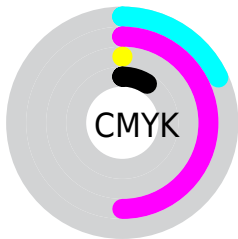
Blue (91%)



Red (75%)

Yellow (45%)

Blue (91%)

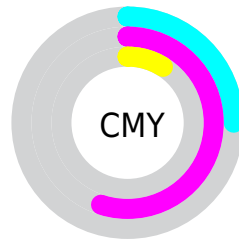


Cyan (18%)

Magenta (50%)

Yellow (0%)

Black (9%)



Cyan (25%)

Magenta (55%)

Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.1821, 29.1640, 79.7499 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 42.1821, 29.1640, 79.7499 by changing the saturation by 10% instead.



42.1821, 29.1640,  
79.7499

42.1821, 29.1640,  
79.7499

346.2161,  
297.9880, 513.7741

29.4356, 19.2049,  
58.9876

77.7386, 58.3375,  
134.8223

19.5566, 11.8184,  
42.1832

101.2793, 78.3208,  
169.9694

12.1795, 6.6202,  
28.9181

129.1489,  
102.4142, 210.7486

6.9391, 3.2257,  
18.7738

161.7126,  
131.0023, 257.5784

3.4700, 1.2507,  
11.3318

199.3358,  
164.4692, 310.8773

1.4069, 0.1025,  
6.1735

242.3839,

0.2612, 0.0000,

203.1996, 371.0639

2.8804

291.2222,  
247.5777, 438.5566

■ 0.0000, 0.0000,  
1.0339

■ 0.0000, 0.0000,  
0.0000

■ 42.1821, 29.1640,  
79.7499

■ 42.1821, 29.1640,  
79.7499

■ 37.8739, 23.4982,  
78.8838

■ 47.2716, 36.2219,  
80.8444

■ 34.2910, 19.1181,  
78.2272

■ 53.1865, 44.7604,  
82.1808

■ 31.3742, 15.9074,  
77.7612

■ 59.9713, 54.8650,  
83.7736

■ 29.0522, 13.7261,  
77.4626

■ 67.6660, 66.6133,  
85.6357

■ 27.2730, 12.3772,  
77.2960

■ 76.3082, 80.0777,  
87.7791

■ 85.9330, 95.3263,  
90.2151

■ 89.0054, 97.2864,  
90.4315

■ 91.5656, 98.6062,  
90.5513

# Harmonies

## Analogous

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



32.8501, 29.1640, 106.9400



42.1821, 29.1640, 79.7499



48.1331, 29.1640, 45.0166

# Triad

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



42.1821, 29.1640, 79.7499



32.0290, 29.1640, 3.8544



14.2155, 29.1640, 47.7423

# Complementary

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



42.1821, 29.1640, 79.7499



45.6621, 66.0195, 26.5571

# 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.



14.0889, 29.1640, 21.3924



42.1821, 29.1640, 79.7499



23.1530, 29.1640, 3.9952

# Square

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



42.1821, 29.1640, 79.7499



41.4700, 29.1640, 7.7322



17.0100, 29.1640, 8.3526



17.4039, 29.1640, 82.6487



# Rectangle

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



42.1821, 29.1640, 79.7499



48.6998, 29.1640, 26.6494



17.0100, 29.1640, 8.3526



13.8415, 29.1640, 37.4734

# Sweetspot

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



42.1832, 29.1652, 79.7506



79.2780, 75.5228, 105.0067



33.8465, 33.8918, 81.1023



16.5400, 15.5115, 22.3722



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.



42.1832, 29.1652, 79.7506



46.5057, 28.5764, 97.6724



51.8566, 34.3968, 69.1440



14.4793, 14.3493, 18.1509



15.2820, 6.9441, 42.9181



1.2289, 0.5645, 3.1762



# Inverse Universe

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



45.4109, 31.8185, 35.2014



51.5738, 32.6009, 34.1278



39.9974, 62.9866, 31.3815



14.5845, 14.4510, 16.0124



19.3597, 9.8781, 5.5232

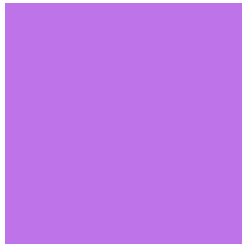


1.4734, 0.7471, 0.6333



# Previews

## White Background



This preview shows how the XYZ color 42.1821, 29.1640, 79.7499 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

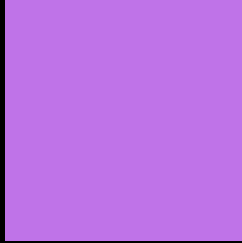
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.1821, 29.1640, 79.7499 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

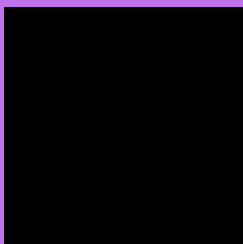
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 42.1821, 29.1640, 79.7499**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.1821, 29.1640, 79.7499.



This preview shows how white text looks on a background with the XYZ color 42.1821, 29.1640,



# 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

42.1821, 29.1640, 79.7499

### Protanopia

33.0603, 29.7632, 98.6101

### Deuteranopia

30.3455, 29.5466, 76.0552



## Tritanopia

32.3526, 29.1486, 31.1152

# Trichromacy



## Original Color

42.1821, 29.1640, 79.7499



## Protanomaly

34.6917, 28.3960, 91.6482



## Deuteranomaly

33.1488, 28.3327, 77.1204



## Tritanomaly

35.1834, 28.6799, 45.2764

# Monochromacy



## Original Color

42.1821, 29.1640, 79.7499



## Achromatopsia

29.4150, 30.9469, 33.7012



## Achromatomaly

33.0526, 29.5792, 47.1473

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.1821, 29.1640, 79.7499 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(191, 115, 232)` looks like.

```
.text, #text, p{  
    color:rgb(191, 115, 232)  
}
```

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(191, 115, 232) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(191, 115, 232) }
```

## Border

The CSS property to change the border of an element to XYZ 42.1821, 29.1640, 79.7499 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(191, 115, 232) }
```



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

```
.border{ border-color:rgb(191, 115, 232) }
```

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

Here you see how a box with a 4 pixel `rgb(191, 115, 232)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(191, 115, 232); -webkit-box-  
shadow:4px 4px 4px 4px rgb(191, 115, 232);  
box-shadow:4px 4px 4px 4px rgb(191, 115,  
232) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.1821, 29.1640, 79.7499 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(191, 115, 232) }
```

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

```
.background{ background-color: rgb(191,  
115, 232) }
```

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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