

Converting Colors

XYZ(46.4220, 23.8560, 70.9707)

Have a look what the booklet for
XYZ(46.4220, 23.8560, 70.9707)
contains.

XYZ(46.4749, 23.8859, 71.2682)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(46.4749, 23.8859,
71.2682)**

Conversions

Conversions Part 1

Format	Color
Hex	E52EDE
RGB	229, 46, 222
RGB Percent	90%, 18%, 87%
CMY	0.1020, 0.8196, 0.1294
CMYK	0.00, 0.80, 0.03, 0.10
HSL	302°, 78%, 54%
HSV	302°, 80%, 90%
XYZ	46.4749, 23.8859, 71.2682
YIQ	120.7810, 52.5720, 93.5320

Conversions

Conversions Part 2

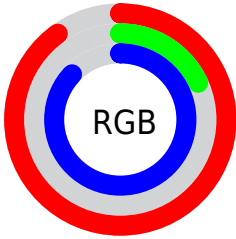
Format	Color
R _Y B	229, 46, 222
Decimal	15019742
CIE Lab	55.97, 83.68, -49.56
CIE LCh	56, 97.254, 329.364
Yxy	23.8859, 0.3281, 0.1687
Android (android.graphics.Color)	4293209822 (0xFFE52EDE)
YUV	120.7810, 49.9010, 94.9081
Hunter-Lab	48.8732, 84.2126, -52.2470

Details

The XYZ color **46.4749, 23.8859, 71.2682** is a light color, and the websafe version is hex **CC00CC**. The color can be described as light washed magenta. A complement of this color would be **29.7898, 56.8776, 12.7780**, and the grayscale version is **17.9378, 18.8719, 20.5516**.

A 20% lighter version of the original color is **65.4207, 40.7415, 99.0236**, and **23.2451, 11.1882, 37.0108** is the 20% darker color. If you saturate the color by 10%, you get **45.6899, 22.5025, 70.4288**, and if you desaturate by 10%, it is **47.7388, 26.2246, 72.2706**.

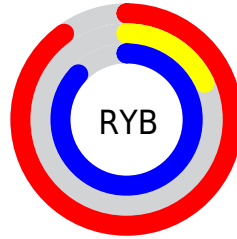
Distribution



Red (90%)

Green (18%)

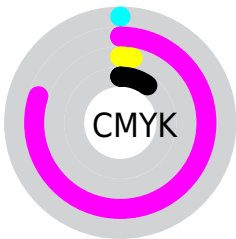
Blue (87%)



Red (90%)

Yellow (18%)

Blue (87%)

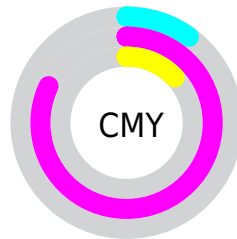


Cyan (0%)

Magenta (80%)

Yellow (3%)

Black (10%)



Cyan (10%)

Magenta (82%)


Yellow (13%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 46.4749, 23.8859, 71.2682 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 46.4749, 23.8859, 71.2682 by changing the saturation by 10% instead.


 46.4749, 23.8859,
71.2682


 46.4749, 23.8859,
71.2682

363.3986,
272.2431, 483.8993


 32.8269, 15.2490,
52.0779


 84.1528, 49.8439,
122.7136


 22.1525, 8.9943,
36.6845


 108.9135, 67.9339,
155.8057


 14.0862, 4.7375,
24.6695


 138.1091, 89.9436,
194.3689

 8.2628, 2.0941,
15.6142

 172.1050,
116.2575, 238.8217

 4.3168, 0.6613,
9.1002

 211.2665,
147.2601, 289.5826

 1.8829, 0.0000,
4.7089

255.9591,

 0.5668, 0.0000,

183.3356, 347.0701

2.0217

306.5480,
224.8685, 411.7029

■ 0.0000, 0.0000,
0.5686

■ 0.0000, 0.0000,
0.0000

■ 46.4749, 23.8859,
71.2682

■ 46.4749, 23.8859,
71.2682

■ 45.6899, 22.5025,
70.4288

■ 47.7388, 26.2246,
72.2706

■ 45.2670, 21.8433,
69.7130

■ 49.5454, 29.6482,
73.4566

■ 45.2636, 21.8383,
69.7066

■ 51.9514, 34.2699,
74.8456

■ 55.0060, 40.1877,
76.4537

■ 58.7530, 47.4895,
78.2957

■ 63.2327, 56.2555,
80.3850

■ 68.4821, 66.5600,
82.7338

■ 74.5357, 78.4719,
85.3538

■ 81.4260, 92.0562,
88.2557

Harmonies

Analogous

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



34.8646, 23.8859, 123.9871



46.4749, 23.8859, 71.2682



51.4447, 23.8859, 26.6919

Triad

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



46.4749, 23.8859, 71.2682



22.9405, 23.8859, 0.0000



8.7157, 23.8859, 68.9923

Complementary

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



46.4749, 23.8859, 71.2682



29.7898, 56.8776, 12.7780

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.



7.3461, 23.8859, 25.3353



46.4749, 23.8859, 71.2682



13.7600, 23.8859, 0.8213

Square

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



46.4749, 23.8859, 71.2682



35.4135, 23.8859, 0.8967



8.8414, 23.8859, 5.6355



13.4682, 23.8859, 122.0757

Rectangle

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



46.4749, 23.8859, 71.2682



49.3911, 23.8859, 10.5448



8.8414, 23.8859, 5.6355



7.9296, 23.8859, 52.0082

Sweetspot

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



46.4758, 23.8870, 71.2687



78.1626, 66.8247, 101.4225



16.5423, 8.3451, 74.8686



16.2991, 13.4603, 21.5066



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.



46.4758, 23.8870, 71.2687



57.9292, 28.1128, 89.2679



37.4153, 20.2628, 23.5565



14.9700, 14.6052, 18.0426



25.8899, 12.4902, 39.9105



1.9206, 0.9260, 2.9886

Inverse Universe

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



46.4758, 23.8870, 71.2687



57.9292, 28.1128, 89.2679



34.1508, 58.6220, 35.7431



14.9700, 14.6052, 18.0426



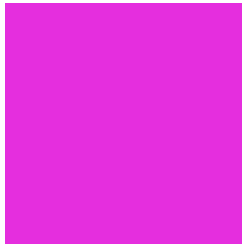
25.8899, 12.4902, 39.9105



1.9206, 0.9260, 2.9886

Previews

White Background



This preview shows how the XYZ color 46.4749, 23.8859, 71.2682 looks on a white background.

Color Contrast Check

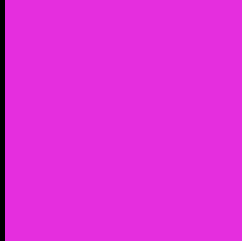
Large Text (above 18pt) WCAG AA ✓ Pass

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 46.4749, 23.8859, 71.2682 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

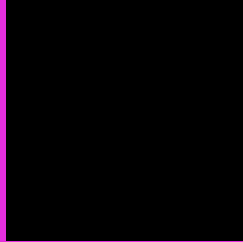
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 46.4749, 23.8859, 71.2682

Background



This preview shows how black text looks on a background with the XYZ color 46.4749, 23.8859, 71.2682.



This preview shows how white text looks on a background with the XYZ color 46.4749, 23.8859,

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

46.4749, 23.8859, 71.2682

Protanopia

28.2807, 24.5426, 97.8544

Deuteranopia

24.8773, 24.1362, 64.3204



Tritanopia

34.7601, 23.7229, 15.0588

Trichromacy



Original Color

46.4749, 23.8859, 71.2682



Protanomaly

29.0470, 19.8705, 87.0985



Deuteranomaly

28.3906, 20.2871, 66.0378



Tritanomaly

37.5835, 22.7242, 29.1934

Monochromacy



Original Color

46.4749, 23.8859, 71.2682



Achromatopsia

18.1737, 19.1202, 20.8219



Achromatomaly

24.6715, 17.9476, 34.5117

CSS Examples

Text

The CSS property to change the color of the text to XYZ 46.4749, 23.8859, 71.2682 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, 46, 222)` looks like.

```
.text, #text, p{  
    color:rgb(229, 46, 222)  
}
```

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, 46, 222) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(229, 46, 222) }
```

Border

The CSS property to change the border of an element to XYZ 46.4749, 23.8859, 71.2682 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, 46, 222) }
```


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

```
.border{ border-color:rgb(229, 46, 222) }
```

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

Here you see how a box with a 4 pixel `rgb(229, 46, 222)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(229, 46, 222); -webkit-box-  
shadow:4px 4px 4px 4px rgb(229, 46, 222);  
box-shadow:4px 4px 4px 4px rgb(229, 46,  
222) }
```

Background

The CSS property to change the background color of an element to XYZ 46.4749, 23.8859, 71.2682 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(229, 46, 222) }
```

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

```
.background{ background-color: rgb(229, 46,  
222) }
```

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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