

# Converting Colors

XYZ(46.2114, 22.8111, 71.0176)

Have a look what the booklet for  
XYZ(46.2114, 22.8111, 71.0176)  
contains.

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# Color

**XYZ(46.1656, 22.7922,  
71.0734)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E619DE
RGB	230, 25, 222
RGB Percent	90%, 10%, 87%
CMY	0.0980, 0.9019, 0.1294
CMYK	0.00, 0.89, 0.03, 0.10
HSL	302°, 80%, 50%
HSV	302°, 89%, 90%
XYZ	46.1656, 22.7922, 71.0734
YIQ	108.7530, 58.9430, 104.7270

# Conversions

## Conversions Part 2

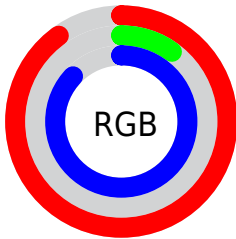
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	230, 25, 222
Decimal	15079902
CIE Lab	54.86, 87.61, -51.32
CIE LCh	55, 101.539, 329.638
Yxy	22.7922, 0.3297, 0.1628
Android (android.graphics.Color)	4293269982 (0xFFE619DE)
YUV	108.7530, 55.8308, 106.3336
Hunter-Lab	47.7412, 89.0620, -54.8476

# Details

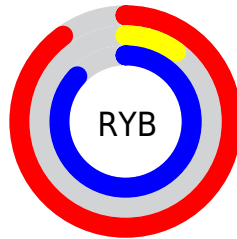
The XYZ color **46.1656, 22.7922, 71.0734** is a light color, and the websafe version is hex **CC00CC**. The color can be described as light washed magenta. A complement of this color would be **28.9734, 56.9112, 10.8983**, and the grayscale version is **14.3048, 15.0498, 16.3892**.

A 20% lighter version of the original color is **64.3416, 38.5832, 98.6639**, and **23.4605, 11.2992, 37.0209** is the 20% darker color. If you saturate the color by 10%, you get **45.7203, 22.0930, 70.3330**, and if you desaturate by 10%, it is **46.9969, 24.2610, 71.9459**.

# Distribution



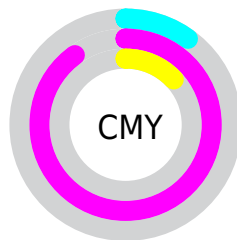
- Red (90%)
- Green (10%)
- Blue (87%)



- Red (90%)
- Yellow (10%)
- Blue (87%)



- Cyan (0%)
- Magenta (89%)
- Yellow (3%)
- Black (10%)



- Cyan (10%)
- Magenta (90%)
- Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.1656, 22.7922, 71.0734 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 46.1656, 22.7922, 71.0734 by changing the saturation by 10% instead.



46.1656, 22.7922,  
71.0734

46.1656, 22.7922,  
71.0734

362.1788,  
266.6559, 483.2006

32.5817, 14.4401,  
51.9199

83.6931, 48.0519,  
122.4337

21.9639, 8.4274,  
36.5594

108.3675, 65.7283,  
155.4775

13.9468, 4.3696,  
24.5735

137.4693, 87.2817,  
193.9885

8.1651, 1.8824,  
15.5434

171.3640,  
113.0963, 238.3853

4.2535, 0.5378,  
9.0508

210.4170,  
143.5567, 289.0864

1.8465, 0.0000,  
4.6771

254.9935,

0.5455, 0.0000,

179.0471, 346.5102

2.0037

305.4590,  
219.9521, 411.0754

■ 0.0000, 0.0000,  
0.5575

■ 0.0000, 0.0000,  
0.0000

■ 46.1656, 22.7922,  
71.0734

■ 46.1656, 22.7922,  
71.0734

■ 45.7203, 22.0930,  
70.3330

■ 46.9969, 24.2610,  
71.9459

■ 45.6879, 22.0450,  
70.2704

■ 48.3150, 26.7030,  
72.9837

■ 50.1869, 30.2518,  
74.2093

■ 52.6687, 35.0191,  
75.6414

■ 55.8094, 41.1033,  
77.2962

■ 59.6530, 48.5924,  
79.1886

■ 64.2400, 57.5670,  
81.3319

■ 69.6075, 68.1018,  
83.7386

■ 75.7903, 80.2660,  
86.4203

# Harmonies

## Analogous

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



34.2010, 22.7922, 126.8076



46.1656, 22.7922, 71.0734



51.2479, 22.7922, 25.2095

# Triad

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



46.1656, 22.7922, 71.0734



21.8000, 22.7922, 0.0000



7.7877, 22.7922, 69.7178

# Complementary

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



46.1656, 22.7922, 71.0734



28.9734, 56.9112, 10.8983

# 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.



6.4443, 22.7922, 24.4283



46.1656, 22.7922, 71.0734



12.6389, 22.7922, 0.4424

# Square

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



46.1656, 22.7922, 71.0734



34.5223, 22.7922, 0.4872



7.8569, 22.7922, 4.8394



12.4747, 22.7922, 125.6524



# Rectangle

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



46.1656, 22.7922, 71.0734



49.0496, 22.7922, 9.2887



7.8569, 22.7922, 4.8394



7.0206, 22.7922, 51.9631

# Sweetspot

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



46.1665, 22.7933, 71.0738



76.4508, 63.4892, 100.5806



15.2223, 6.7141, 75.3576



15.9709, 12.8224, 21.3406



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.



46.1665, 22.7933, 71.0738



57.7286, 27.8554, 88.7576



36.4131, 18.8919, 19.7131



14.9695, 14.6050, 18.0400



25.8766, 12.4849, 39.8408



1.9198, 0.9256, 2.9842



# Inverse Universe

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



46.1665, 22.7933, 71.0738



57.7286, 27.8554, 88.7576



33.0257, 58.5322, 32.2372



14.9695, 14.6050, 18.0400



25.8766, 12.4849, 39.8408



1.9198, 0.9256, 2.9842



# Previews

## White Background



This preview shows how the XYZ color 46.1656, 22.7922, 71.0734 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

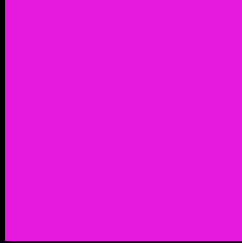
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.1656, 22.7922, 71.0734 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

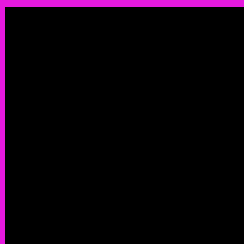
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 46.1656, 22.7922, 71.0734**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.1656, 22.7922, 71.0734.



This preview shows how white text looks on a background with the XYZ color 46.1656, 22.7922,

71.0734.

# 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

46.1656, 22.7922, 71.0734

### Protanopia

27.3447, 23.4706, 97.6968

### Deuteranopia

23.8797, 23.2298, 63.5468



## Tritanopia

34.2532, 22.7227, 13.4070

# Trichromacy



## Original Color

46.1656, 22.7922, 71.0734



## Protanomaly

27.5265, 17.8752, 86.7935



## Deuteranomaly

26.8672, 18.2592, 65.7266



## Tritanomaly

36.8801, 21.3491, 27.3763

# Monochromacy



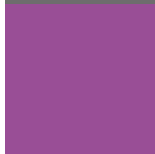
## Original Color

46.1656, 22.7922, 71.0734



## Achromatopsia

14.5356, 15.2926, 16.6537



## Achromatomaly

21.3663, 14.4231, 30.5120

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.1656, 22.7922, 71.0734 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(230, 25, 222)` looks like.

```
.text, #text, p{  
    color:rgb(230, 25, 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(230, 25, 222) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(230, 25, 222) }
```

## Border

The CSS property to change the border of an element to XYZ 46.1656, 22.7922, 71.0734 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(230, 25, 222) }
```



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

```
.border{ border-color:rgb(230, 25, 222) }
```

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

Here you see how a box with a 4 pixel `rgb(230, 25, 222)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(230, 25, 222); -webkit-box-  
shadow:4px 4px 4px 4px rgb(230, 25, 222);  
box-shadow:4px 4px 4px 4px rgb(230, 25,  
222) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.1656, 22.7922, 71.0734 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(230, 25, 222) }
```

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

```
.background{ background-color: rgb(230, 25,  
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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