

# Converting Colors

XYZ(44.7401, 21.9255, 70.6485)

Have a look what the booklet for  
XYZ(44.7401, 21.9255, 70.6485)  
contains.

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# Color

**XYZ(44.7990, 21.9430,  
70.9815)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E214DE
RGB	226, 20, 222
RGB Percent	89%, 8%, 87%
CMY	0.1137, 0.9215, 0.1294
CMYK	0.00, 0.91, 0.02, 0.11
HSL	301°, 84%, 48%
HSV	301°, 91%, 89%
XYZ	44.7990, 21.9430, 70.9815
YIQ	104.6220, 57.9340, 106.4940

# Conversions

## Conversions Part 2

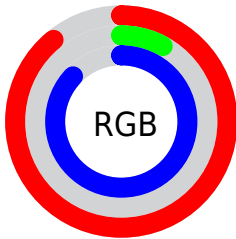
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	226, 20, 222
Decimal	14816478
CIE Lab	53.97, 87.54, -52.79
CIE LCh	54, 102.220, 328.910
Yxy	21.9430, 0.3253, 0.1593
Android (android.graphics.Color)	4293006558 (0xFFE214DE)
YUV	104.6220, 57.8674, 106.4485
Hunter-Lab	46.8434, 88.7340, -57.0515

# Details

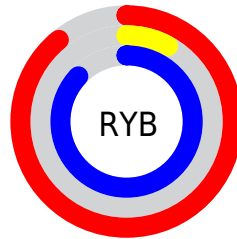
The XYZ color **44.7990, 21.9430, 70.9815** is a light color, and the websafe version is hex **CC00CC**. The color can be described as light washed magenta. A complement of this color would be **27.6508, 54.6085, 9.9486**, and the grayscale version is **13.1670, 13.8527, 15.0856**.

A 20% lighter version of the original color is **64.1402, 38.1805, 98.5967**, and **22.6088, 10.8602, 36.9810** is the 20% darker color. If you saturate the color by 10%, you get **44.4972, 21.4221, 70.6242**, and if you desaturate by 10%, it is **45.4585, 23.1669, 71.4922**.

# Distribution



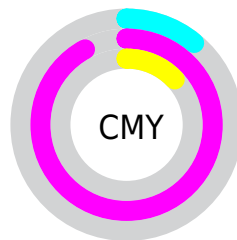
- Red (89%)
- Green (8%)
- Blue (87%)



- Red (89%)
- Yellow (8%)
- Blue (87%)



- Cyan (0%)
- Magenta (91%)
- Yellow (2%)
- Black (11%)




- Cyan (11%)
- Magenta (92%)
- Yellow (13%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 44.7990, 21.9430, 70.9815 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 44.7990, 21.9430, 70.9815 by changing the saturation by 10% instead.



 44.7990, 21.9430,  
70.9815

 44.7990, 21.9430,  
70.9815

356.7563,  
262.2485, 482.8707


 31.4997, 13.8150,  
51.8454


 81.6576, 46.6518,  
122.3016

 21.1334, 7.9921,  
36.5004


 105.9477, 64.0014,  
155.3226

 13.3345, 4.0899,  
24.5282


 134.6321, 85.1936,  
193.8090

 7.7379, 1.7240,  
15.5101

 168.0762,  
110.6129, 238.1794

 3.9781, 0.4391,  
9.0276

 206.6453,  
140.6436, 288.8522

 1.6897, 0.0000,  
4.6621

250.7048,

 0.4498, 0.0000,

175.6702, 346.2459

1.9952

300.6200,  
216.0770, 410.7793

■ 0.0000, 0.0000,  
0.5523

■ 0.0000, 0.0000,  
0.0000

■ 44.7990, 21.9430,  
70.9815

■ 44.7990, 21.9430,  
70.9815

■ 44.4972, 21.4221,  
70.6242

■ 45.4585, 23.1669,  
71.4922

■ 46.5705, 25.2964,  
72.1543

■ 48.2018, 28.4643,  
72.9902

■ 50.4077, 32.7810,  
74.0185

■ 53.2362, 38.3428,  
75.2550

■ 56.7306, 45.2360,  
76.7143

■ 60.9300, 53.5391,  
78.4093

■ 65.8707, 63.3244,  
80.3522

■ 71.5863, 74.6594,  
82.5542

# Harmonies

## Analogous

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



32.8804, 21.9430, 126.2506



44.7990, 21.9430, 70.9815



50.0574, 21.9430, 25.0664

# Triad

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



44.7990, 21.9430, 70.9815



21.2622, 21.9430, 0.0000



7.2550, 21.9430, 66.9252

# Complementary

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



44.7990, 21.9430, 70.9815



27.6508, 54.6085, 9.9486

# 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.



6.0264, 21.9430, 22.7552



44.7990, 21.9430, 70.9815



12.1919, 21.9430, 0.2492

# Square

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



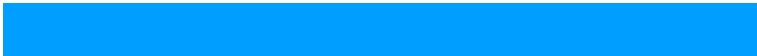
44.7990, 21.9430, 70.9815



33.8361, 21.9430, 0.3851



7.4564, 21.9430, 4.2507



11.7098, 21.9430, 122.7774



# Rectangle

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



44.7990, 21.9430, 70.9815



48.0402, 21.9430, 9.1192



7.4564, 21.9430, 4.2507



6.5389, 21.9430, 49.4762

# Sweetspot

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



44.7999, 21.9440, 70.9819



76.6659, 63.5752, 101.7134



14.3421, 6.1798, 72.3894



16.0227, 12.8431, 21.6133



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.



44.7999, 21.9440, 70.9819



58.5027, 28.1651, 92.8340



34.9797, 18.0159, 19.2694



14.2829, 13.9308, 17.2601



25.3908, 12.2233, 40.3194



1.7637, 0.8487, 2.8143



# Inverse Universe

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



44.7999, 21.9440, 70.9819



58.5027, 28.1651, 92.8340



31.2804, 56.0603, 29.0616



14.2829, 13.9308, 17.2601



25.3908, 12.2233, 40.3194



1.7637, 0.8487, 2.8143



# Previews

## White Background



This preview shows how the XYZ color 44.7990, 21.9430, 70.9815 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

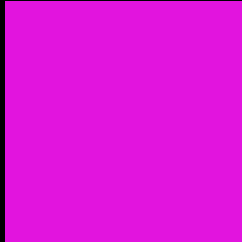
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 44.7990, 21.9430, 70.9815 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

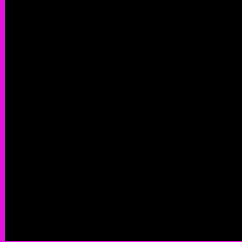
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 44.7990, 21.9430, 70.9815**

## **Background**



This preview shows how black text looks on a background with the XYZ color 44.7990, 21.9430, 70.9815.



This preview shows how white text looks on a background with the XYZ color 44.7990, 21.9430,



# 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

44.7990, 21.9430, 70.9815

### Protanopia

26.6376, 22.7226, 97.5897

### Deuteranopia

23.0585, 22.4077, 63.4314



## Tritanopia

32.6615, 21.7846, 13.0731

# Trichromacy



## Original Color

44.7990, 21.9430, 70.9815



## Protanomaly

26.1414, 16.6670, 86.6333



## Deuteranomaly

25.7854, 17.3183, 65.6020



## Tritanomaly

35.2005, 20.2298, 27.2488

# Monochromacy



## Original Color

44.7990, 21.9430, 70.9815



## Achromatopsia

13.4271, 14.1263, 15.3836



## Achromatomaly

20.1885, 13.4252, 29.5443

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 44.7990, 21.9430, 70.9815 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(226, 20, 222)` looks like.

```
.text, #text, p{  
    color:rgb(226, 20, 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(226, 20, 222) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(226, 20, 222) }
```

## Border

The CSS property to change the border of an element to XYZ 44.7990, 21.9430, 70.9815 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(226, 20, 222) }
```



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

```
.border{ border-color:rgb(226, 20, 222) }
```

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

Here you see how a box with a 4 pixel `rgb(226, 20, 222)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(226, 20, 222); -webkit-box-  
shadow:4px 4px 4px 4px rgb(226, 20, 222);  
box-shadow:4px 4px 4px 4px rgb(226, 20,  
222) }
```

# Background

The CSS property to change the background color of an element to XYZ 44.7990, 21.9430, 70.9815 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(226, 20, 222) }
```

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

```
.background{ background-color: rgb(226, 20,  
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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