

# Converting Colors

XYZ(46.6761, 22.4205, 76.3628)

Have a look what the booklet for  
XYZ(46.6761, 22.4205, 76.3628)  
contains.

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# Color

**XYZ(46.5960, 22.3712,  
76.7251)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E500E6
RGB	229, 0, 230
RGB Percent	90%, 0%, 90%
CMY	0.1020, 0.9999, 0.0980
CMYK	0.00, 1.00, 0.00, 0.10
HSL	300°, 100%, 45%
HSV	300°, 100%, 90%
XYZ	46.5960, 22.3712, 76.7251
YIQ	94.6910, 62.6540, 120.0780

# Conversions

## Conversions Part 2

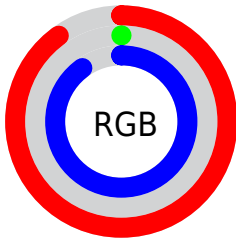
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	229, 0, 230
Decimal	15007974
CIE Lab	54.42, 90.72, -56.56
CIE LCh	54, 106.911, 328.058
Yxy	22.3712, 0.3198, 0.1536
Android (android.graphics.Color)	4293198054 (0xFFE500E6)
YUV	94.6910, 66.7073, 117.7890
Hunter-Lab	47.2982, 93.0781, -63.0689

# Details

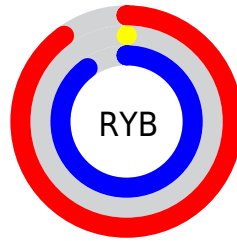
The XYZ color **46.5960, 22.3712, 76.7251** is a light color, and the websafe version is hex **FF33FF**. The color can be described as light washed magenta. A complement of this color would be **28.3101, 56.6006, 9.4340**, and the grayscale version is **10.6445, 11.1988, 12.1955**.

A 20% lighter version of the original color is **63.7518, 37.4037, 98.4673**, and **23.7884, 11.3808, 40.9873** is the 20% darker color. If you saturate the color by 10%, you get **46.5965, 22.3714, 76.7254**, and if you desaturate by 10%, it is **46.9356, 23.0021, 76.8293**.

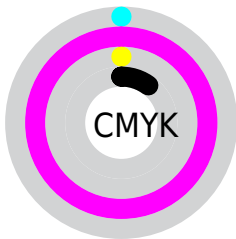
# Distribution



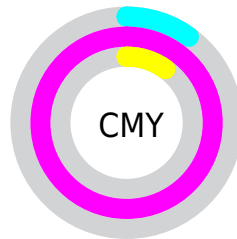
- Red (90%)
- Green (0%)
- Blue (90%)



- Red (90%)
- Yellow (0%)
- Blue (90%)



- Cyan (0%)
- Magenta (100%)
- Yellow (0%)
- Black (10%)




- Cyan (10%)
- Magenta (100%)
- Yellow (10%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.5960, 22.3712, 76.7251 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 46.5960, 22.3712, 76.7251 by changing the saturation by 10% instead.



 46.5960, 22.3712,  
76.7251


 46.5960, 22.3712,  
76.7251

363.8755,  
264.4787, 503.2390


 32.9230, 14.1299,  
56.5171


 84.3327, 47.3587,  
130.5208


 22.2264, 8.2111,  
40.2109


 109.1271, 64.8738,  
164.9456


 14.1409, 4.2303,  
27.3880


 138.3593, 86.2489,  
204.9464

 8.3011, 1.8032,  
17.6298

 172.3947,  
111.8684, 250.9417

 4.3416, 0.4892,  
10.5178

 211.5987,  
142.1167, 303.3500

 1.8972, 0.0000,  
5.6336

256.3366,

 0.5752, 0.0000,

177.3783, 362.5900

2.5584

306.9737,  
218.0375, 429.0802

■ 0.0000, 0.0000,  
0.8709

■ 0.0000, 0.0000,  
0.0000

■ 46.5960, 22.3712,  
76.7251

■ 46.5960, 22.3712,  
76.7251

■ 46.5965, 22.3714,  
76.7254

■ 46.9356, 23.0021,  
76.8293

■ 47.6388, 24.3612,  
77.0545

■ 48.8227, 26.6816,  
77.4400

■ 50.5546, 30.0980,  
78.0082

■ 52.8912, 34.7237,  
78.7779

■ 55.8820, 40.6579,  
79.7657

■ 59.5716, 47.9895,  
80.9863

■ 64.0004, 56.7997,  
82.4535

■ 69.2061, 67.1635,  
84.1795

# Harmonies

## Analogous

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



33.6791, 22.3712, 136.6992



46.5960, 22.3712, 76.7251



52.5510, 22.3712, 26.6047

# Triad

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



46.5960, 22.3712, 76.7251



22.0337, 22.3712, 0.0000



6.9600, 22.3712, 68.8923

# Complementary

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



46.5960, 22.3712, 76.7251



28.3101, 56.6006, 9.4340

# 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.



5.7850, 22.3712, 22.2423



46.5960, 22.3712, 76.7251



12.3490, 22.3712, 0.0000

# Square

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



46.5960, 22.3712, 76.7251



35.5030, 22.3712, 0.2169



7.3279, 22.3712, 3.7118



11.4536, 22.3712, 129.9281



# Rectangle

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



46.5960, 22.3712, 76.7251



50.5768, 22.3712, 9.3611



7.3279, 22.3712, 3.7118



6.2565, 22.3712, 50.2449

# Sweetspot

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



46.5969, 22.3722, 76.7255



75.1879, 60.4572, 102.3143



14.3255, 5.7974, 75.2272



15.6479, 12.0550, 21.7521



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.



46.5969, 22.3722, 76.7255



58.8836, 28.2705, 96.9610



35.9545, 18.1522, 19.0147



14.9886, 14.6119, 18.1747



26.3831, 12.6669, 43.4376



1.9516, 0.9371, 3.2100



# Inverse Universe

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



32.6393, 16.8261, 1.5572



41.2461, 21.2624, 1.9620



31.1769, 57.7459, 24.5956



14.3796, 14.3690, 14.9332



18.4793, 9.5259, 0.8870



1.3665, 0.7043, 0.0703



# Previews

## White Background



This preview shows how the XYZ color 46.5960, 22.3712, 76.7251 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

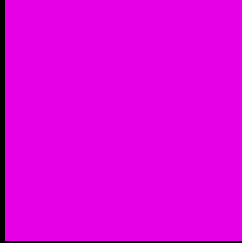
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 46.5960, 22.3712, 76.7251 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

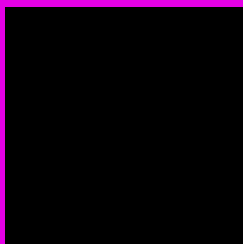
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 46.5960, 22.3712, 76.7251**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.5960, 22.3712, 76.7251.



This preview shows how white text looks on a background with the XYZ color 46.5960, 22.3712,



# 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

46.5960, 22.3712, 76.7251

### Protanopia

27.2374, 23.4152, 97.6918

### Deuteranopia

23.7065, 23.0382, 68.1631



## Tritanopia

33.4990, 22.4530, 13.6346

# Trichromacy



## Original Color

46.5960, 22.3712, 76.7251



## Protanomaly

26.9131, 16.3206, 88.9205



## Deuteranomaly

25.7372, 16.4666, 70.2285



## Tritanomaly

35.7874, 20.0307, 28.7682

# Monochromacy



## Original Color

46.5960, 22.3712, 76.7251



## Achromatopsia

10.8771, 11.4435, 12.4620



## Achromatomaly

18.1515, 11.1746, 27.5858

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.5960, 22.3712, 76.7251 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, 0, 230)` looks like.

```
.text, #text, p{  
  color:rgb(229, 0, 230)  
}
```

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, 0, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(229, 0, 230) }
```

## Border

The CSS property to change the border of an element to XYZ 46.5960, 22.3712, 76.7251 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, 0, 230) }
```



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

```
.border{ border-color:rgb(229, 0, 230) }
```

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

Here you see how a box with a 4 pixel rgb(229, 0, 230) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(229, 0, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(229, 0, 230);  
box-shadow:4px 4px 4px 4px rgb(229, 0,  
230) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.5960, 22.3712, 76.7251 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(229, 0, 230) }
```

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

```
.background{ background-color: rgb(229, 0,  
230) }
```

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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