

# Converting Colors

XYZ(46.5287, 22.0860, 88.0369)

Have a look what the booklet for  
XYZ(46.5287, 22.0860, 88.0369)  
contains.

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# Color

**XYZ(46.6056, 22.1222,  
88.1998)**

# Conversions

Conversions Part 1	
Format	Color
Hex	DE00F5
RGB	222, 0, 245
RGB Percent	87%, 0%, 96%
CMY	0.1294, 0.9999, 0.0392
CMYK	0.09, 1.00, 0.00, 0.04
HSL	294°, 100%, 48%
HSV	294°, 100%, 96%
XYZ	46.6056, 22.1222, 88.1998
YIQ	94.3080, 53.6670, 123.2590

# Conversions

## Conversions Part 2

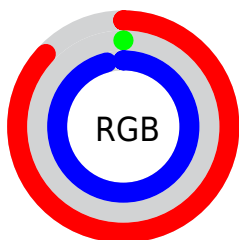
Format	Color
<a href="#">RYB</a>	<a href="#">222, 0, 245</a>
Decimal	<a href="#">14549237</a>
CIELab	<a href="#">54.16, 91.88, -65.48</a>
CIELCh	<a href="#">54, 112.824, 324.525</a>
Yxy	<a href="#">22.1222, 0.2970, 0.1410</a>
Android (android.graphics.Color)	<a href="#">4292739317</a> (0xFFDE00F5)
YUV	<a href="#">94.3080, 74.2912, 111.9859</a>
Hunter-Lab	<a href="#">47.0342, 94.5633, -78.2581</a>

# Details

The XYZ color **46.6056, 22.1222, 88.1998** is a light color, and the websafe version is hex **CC00FF**. The color can be described as light saturated magenta. A complement of this color would be **33.0067, 65.4876, 10.9016**, and the grayscale version is **10.5376, 11.0864, 12.0731**.

A 20% lighter version of the original color is **63.7518, 37.4037, 98.4673**, and **23.7750, 11.2079, 48.4872** is the 20% darker color. If you saturate the color by 10%, you get **46.6054, 22.1220, 88.2001**, and if you desaturate by 10%, it is **47.6533, 23.1636, 88.3459**.

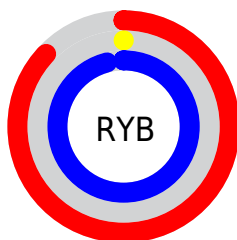
# Distribution



Red (87%)

Green (0%)

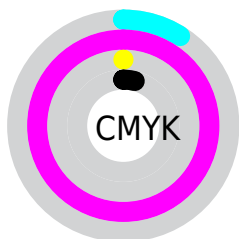
Blue (96%)



Red (87%)

Yellow (0%)

Blue (96%)

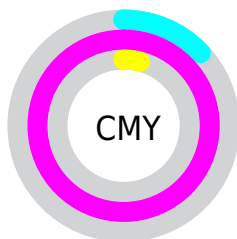


Cyan (9%)

Magenta (100%)

Yellow (0%)

Black (4%)



Cyan (13%)

Magenta (100%)


Yellow (4%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.6056, 22.1222, 88.1998 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 46.6056, 22.1222, 88.1998 by changing the saturation by 10% instead.





 46.6056, 22.1222,  
88.1998

 46.6056, 22.1222,  
88.1998

363.9133,  
263.1838, 542.5756


 32.9306, 13.9467,  
65.9233


 84.3469, 46.9479,  
146.7489


 22.2323, 8.0836,  
47.7540


 109.1440, 64.3669,  
183.8585


 14.1452, 4.1485,  
33.2735


 138.3791, 85.6358,  
226.7496

 8.3041, 1.7570,  
22.0632

 172.4177,  
111.1391, 275.8406

 4.3436, 0.4601,  
13.7046

 211.6250,  
141.2612, 331.5502

 1.8983, 0.0000,  
7.7791


256.3665,


 0.5758, 0.0000,


176.3864, 394.2969


3.8682


307.0075,  
216.8991, 464.4991


 0.0000, 0.0000,  
1.5533


 0.0000, 0.0000,  
0.2572


 46.6056, 22.1222,  
88.1998

 46.6056, 22.1222,  
88.1998

 46.6054, 22.1220,  
88.2001

 47.6533, 23.1636,  
88.3459

 49.1343, 25.0581,  
88.6335

 51.1810, 28.0698,  
89.1070

 53.8725, 32.3565,  
89.7925

■ 57.2751, 38.0509,  
90.7123

■ 61.4467, 45.2689,  
91.8857

■ 66.4395, 54.1146,  
93.3299

■ 72.3007, 64.6826,  
95.0608

■ 79.0742, 77.0604,  
97.0930

# Harmonies

## Analogous

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



32.3865, 22.1222, 152.1648



46.6056, 22.1222, 88.1998



54.2320, 22.1222, 31.1080

# Triad

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



46.6056, 22.1222, 88.1998



23.3530, 22.1222, 0.0000



6.0605, 22.1222, 64.2949

# Complementary

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



46.6056, 22.1222, 88.1998



33.0067, 65.4876, 10.9016

# 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.



5.2227, 22.1222, 18.2114



46.6056, 22.1222, 88.1998



12.6923, 22.1222, 0.0000

# Square

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



46.6056, 22.1222, 88.1998



37.8559, 22.1222, 0.1044



7.0941, 22.1222, 2.3244



10.1120, 22.1222, 131.2283



# Rectangle

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



46.6056, 22.1222, 88.1998



53.0283, 22.1222, 10.8291



7.0941, 22.1222, 2.3244



5.4817, 22.1222, 45.2543

# Sweetspot

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



46.6066, 22.1232, 88.2003



72.7169, 59.1833, 102.1987



16.8195, 7.2681, 86.9029



15.0464, 11.7448, 21.7239



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.



46.6066, 22.1232, 88.2003



51.0243, 24.2189, 96.5932



42.9241, 21.5202, 29.5005



17.0513, 16.6846, 20.8643



25.1711, 11.9505, 47.5180



2.2561, 1.0729, 4.1784



# Inverse Universe

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



37.8116, 19.4752, 2.5784



41.4042, 21.3257, 2.7949



34.8584, 66.1874, 22.4982



16.5623, 16.5078, 17.4417



20.3911, 10.4999, 1.5020



1.8131, 0.9312, 0.2423



# Previews

## White Background



This preview shows how the XYZ color 46.6056, 22.1222, 88.1998 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

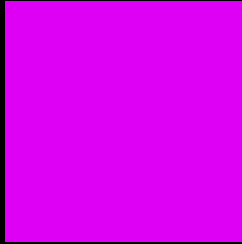
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 46.6056, 22.1222, 88.1998 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

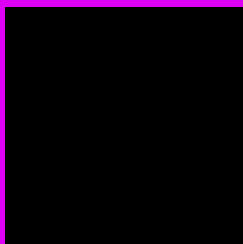
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 46.6056, 22.1222, 88.1998**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.6056, 22.1222, 88.1998.



This preview shows how white text looks on a background with the XYZ color 46.6056, 22.1222,



# 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

46.6056, 22.1222, 88.1998

### Protanopia

26.9060, 23.0517, 97.6391

### Deuteranopia

23.6667, 23.0018, 78.0553



## Tritanopia

31.8079, 22.3242, 15.4645

# Trichromacy



**Original Color**  
46.6056, 22.1222, 88.1998

**Protanomaly**  
27.0371, 16.2946, 92.9870

**Deuteranomaly**  
24.4282, 15.6833, 80.3369

**Tritanomaly**  
34.4491, 19.5529, 32.9688

# Monochromacy



**Original Color**  
46.6056, 22.1222, 88.1998

**Achromatopsia**  
10.6392, 11.1932, 12.1894

**Achromatomaly**  
18.0252, 11.0644, 29.6194

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.6056, 22.1222, 88.1998 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(222, 0, 245)` looks like.

```
.text, #text, p{  
    color:rgb(222, 0, 245)  
}
```

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(222, 0, 245) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 0, 245) }
```

## Border

The CSS property to change the border of an element to XYZ 46.6056, 22.1222, 88.1998 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(222, 0, 245) }
```



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

```
.border{ border-color:rgb(222, 0, 245) }
```

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

Here you see how a box with a 4 pixel rgb(222, 0, 245) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 0, 245); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 0, 245);  
box-shadow:4px 4px 4px 4px rgb(222, 0,  
245) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.6056, 22.1222, 88.1998 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 0, 245) }
```

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

```
.background{ background-color: rgb(222, 0,  
245) }
```

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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