

Converting Colors

XYZ(46.4639, 22.2274, 80.1360)

Have a look what the booklet for
XYZ(46.4639, 22.2274, 80.1360)
contains.

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Color

**XYZ(46.6739, 22.3291,
80.4472)**

Conversions

Conversions Part 1

Format	Color
Hex	E300EB
RGB	227, 0, 235
RGB Percent	89%, 0%, 92%
CMY	0.1098, 0.9999, 0.0784
CMYK	0.03, 1.00, 0.00, 0.08
HSL	298°, 100%, 46%
HSV	298°, 100%, 92%
XYZ	46.6739, 22.3291, 80.4472
YIQ	94.6630, 59.8570, 121.2090

Conversions

Conversions Part 2

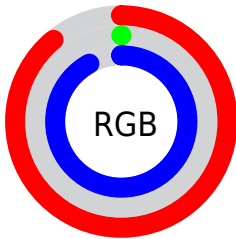
Format	Color
R _Y B	227, 0, 235
Decimal	14876907
CIE Lab	54.37, 91.13, -59.47
CIE LCh	54, 108.821, 326.873
Yxy	22.3291, 0.3123, 0.1494
Android (android.graphics.Color)	4293066987 (0xFFE300EB)
YUV	94.6630, 69.1861, 116.0595
Hunter-Lab	47.2537, 93.6160, -67.8609

Details

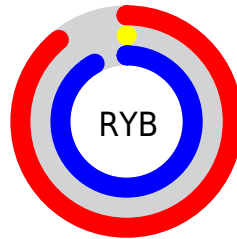
The XYZ color **46.6739, 22.3291, 80.4472** is a light color, and the websafe version is hex **FF33FF**. The color can be described as light washed magenta. A complement of this color would be **29.8092, 59.4688, 9.9086**, and the grayscale version is **10.6327, 11.1864, 12.1820**.

A 20% lighter version of the original color is **63.7518, 37.4037, 98.4673**, and **23.7618, 11.3213, 43.0523** is the 20% darker color. If you saturate the color by 10%, you get **46.6740, 22.3291, 80.4475**, and if you desaturate by 10%, it is **47.2446, 23.0941, 80.5651**.

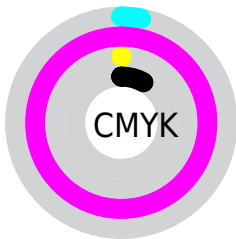
Distribution



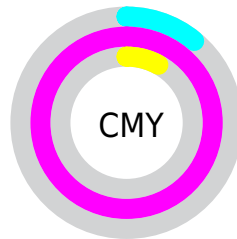
- Red (89%)
- Green (0%)
- Blue (92%)



- Red (89%)
- Yellow (0%)
- Blue (92%)



- Cyan (3%)
- Magenta (100%)
- Yellow (0%)
- Black (8%)





- Cyan (11%)
- Magenta (100%)
- Yellow (8%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 46.6739, 22.3291, 80.4472 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 46.6739, 22.3291, 80.4472 by changing the saturation by 10% instead.


 46.6739, 22.3291,
80.4472


 46.6739, 22.3291,
80.4472


364.1821,
264.2601, 516.1851


 32.9848, 14.0989,
59.5581


 84.4484, 47.2893,
135.8114


 22.2740, 8.1895,
42.6396


 109.2644, 64.7882,
171.1235


 14.1761, 4.2164,
29.2731


 138.5202, 86.1453,
212.0804

 8.3258, 1.7954,
19.0402

 172.5810,
111.7452, 259.1006

 4.3576, 0.4843,
11.5222

 211.8123,
141.9723, 312.6026

 1.9064, 0.0000,
6.3007

256.5793,

 0.5805, 0.0000,

177.2108, 373.0050

2.9570

307.2474,
217.8453, 440.7263

■ 0.0000, 0.0000,
1.0727

■ 0.0000, 0.0000,
0.0000

■ 46.6739, 22.3291,
80.4472

■ 46.6739, 22.3291,
80.4472

■ 46.6740, 22.3291,
80.4475

■ 47.2446, 23.0941,
80.5651

■ 48.1995, 24.6268,
80.8106

■ 49.6608, 27.1702,
81.2245

■ 51.6994, 30.8667,
81.8306

■ 54.3751, 35.8356,
82.6486

■ 57.7402, 42.1817,
83.6962

■ 61.8417, 49.9987,
84.9888

■ 66.7223, 59.3721,
86.5409

■ 72.4215, 70.3811,
88.3654

Harmonies

Analogous

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



33.3121, 22.3291, 141.7944



46.6739, 22.3291, 80.4472



53.1754, 22.3291, 28.0589

Triad

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



46.6739, 22.3291, 80.4472



22.4938, 22.3291, 0.0000



6.6731, 22.3291, 67.4871

Complementary

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



46.6739, 22.3291, 80.4472



29.8092, 59.4688, 9.9086

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.



5.6103, 22.3291, 20.9155



46.6739, 22.3291, 80.4472



12.4825, 22.3291, 0.0000

Square

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



46.6739, 22.3291, 80.4472



36.3131, 22.3291, 0.1829



7.2660, 22.3291, 3.2225



11.0278, 22.3291, 130.5425

Rectangle

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



46.6739, 22.3291, 80.4472



51.4435, 22.3291, 9.8397



7.2660, 22.3291, 3.2225



6.0104, 22.3291, 48.6701

Sweetspot

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



46.6748, 22.3301, 80.4477



74.3584, 60.0295, 102.2755



15.1248, 6.2562, 79.0079



15.4456, 11.9507, 21.7426



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.



46.6748, 22.3301, 80.4477



56.1680, 26.8705, 96.8339



38.2417, 19.2551, 22.5632



15.6612, 15.2861, 19.0473



25.9993, 12.4391, 44.7736



2.0575, 0.9850, 3.5166

Inverse Universe

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



34.3055, 17.6807, 1.8354



41.2876, 21.2790, 2.1805



32.2985, 60.4530, 23.5396



15.0862, 15.0624, 15.7395



19.1016, 9.8433, 1.0702



1.5073, 0.7759, 0.1227

Previews

White Background



This preview shows how the XYZ color 46.6739, 22.3291, 80.4472 looks on a white background.

Color Contrast Check

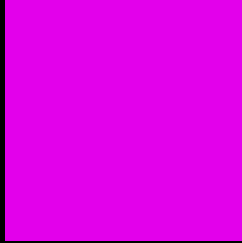
Large Text (above 18pt) WCAG AA ✓ Pass

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 46.6739, 22.3291, 80.4472 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

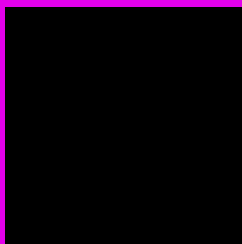
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 46.6739, 22.3291, 80.4472

Background



This preview shows how black text looks on a background with the XYZ color 46.6739, 22.3291, 80.4472.



This preview shows how white text looks on a background with the XYZ color 46.6739, 22.3291,

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

46.6739, 22.3291, 80.4472

Protanopia

27.0555, 23.1288, 97.6461

Deuteranopia

23.7567, 22.9882, 71.5917



Tritanopia

33.1831, 22.5332, 14.1557

Trichromacy



Original Color

46.6739, 22.3291, 80.4472



Protanomaly

27.0882, 16.3752, 90.5400



Deuteranomaly

25.5020, 16.2673, 73.7473



Tritanomaly

35.5245, 20.0178, 30.0084

Monochromacy



Original Color

46.6739, 22.3291, 80.4472



Achromatopsia

10.8771, 11.4435, 12.4620



Achromatomaly

18.1319, 11.1467, 28.3900

CSS Examples

Text

The CSS property to change the color of the text to XYZ 46.6739, 22.3291, 80.4472 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(227, 0, 235)` looks like.

```
.text, #text, p{  
    color:rgb(227, 0, 235)  
}
```

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(227, 0, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 0, 235) }
```

Border

The CSS property to change the border of an element to XYZ 46.6739, 22.3291, 80.4472 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(227, 0, 235) }
```


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

```
.border{ border-color:rgb(227, 0, 235) }
```

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

Here you see how a box with a 4 pixel rgb(227, 0, 235) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 0, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 0, 235);  
box-shadow:4px 4px 4px 4px rgb(227, 0,  
235) }
```

Background

The CSS property to change the background color of an element to XYZ 46.6739, 22.3291, 80.4472 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(227, 0, 235) }
```

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

```
.background{ background-color: rgb(227, 0,  
235) }
```

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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