

# Converting Colors

XYZ(47.4903, 22.9019, 82.5398)

Have a look what the booklet for  
XYZ(47.4903, 22.9019, 82.5398)  
contains.

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# Color

**XYZ(47.5590, 22.9300,  
82.8082)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E40CEE
RGB	228, 12, 238
RGB Percent	89%, 5%, 93%
CMY	0.1059, 0.9528, 0.0667
CMYK	0.04, 0.95, 0.00, 0.07
HSL	297°, 90%, 49%
HSV	297°, 95%, 93%
XYZ	47.5590, 22.9300, 82.8082
YIQ	102.3480, 56.1900, 116.0780

# Conversions

## Conversions Part 2

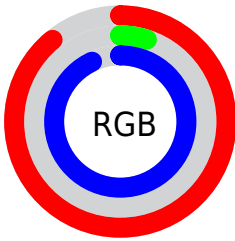
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	228, 12, 238
Decimal	14945518
CIE Lab	55.00, 90.91, -60.14
CIE LCh	55, 109.007, 326.513
Yxy	22.9300, 0.3102, 0.1496
Android (android.graphics.Color)	4293135598 (0xFFE40CEE)
YUV	102.3480, 66.8764, 110.1968
Hunter-Lab	47.8853, 93.4845, -69.0107

# Details

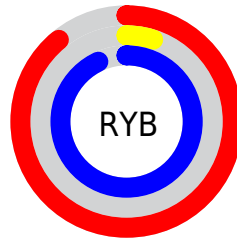
The XYZ color **47.5590, 22.9300, 82.8082** is a light color, and the websafe version is hex **FF33FF**. The color can be described as light washed magenta. A complement of this color would be **30.9727, 61.3468, 10.5575**, and the grayscale version is **12.5455, 13.1988, 14.3735**.

A 20% lighter version of the original color is **64.0414, 37.9827, 98.5638**, and **24.2768, 11.5517, 44.6662** is the 20% darker color. If you saturate the color by 10%, you get **47.2595, 22.5804, 82.7568**, and if you desaturate by 10%, it is **48.3891, 24.0917, 82.9890**.

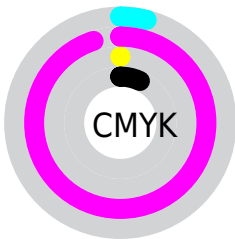
# Distribution



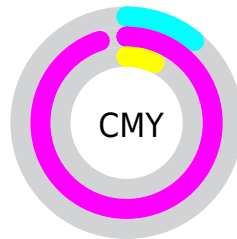
- Red (89%)
- Green (5%)
- Blue (93%)



- Red (89%)
- Yellow (5%)
- Blue (93%)



- Cyan (4%)
- Magenta (95%)
- Yellow (0%)
- Black (7%)




- Cyan (11%)
- Magenta (95%)
- Yellow (7%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.5590, 22.9300, 82.8082 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 47.5590, 22.9300, 82.8082 by changing the saturation by 10% instead.




 47.5590, 22.9300,  
82.8082

 47.5590, 22.9300,  
82.8082

367.6532,  
267.3653, 524.3013

 33.6876, 14.5418,  
61.4922


 85.7611, 48.2784,  
139.1536


 22.8154, 8.4985,  
44.1894


 110.8225, 66.0073,  
175.0202


 14.5772, 4.4155,  
30.4812


 140.3446, 87.6187,  
216.5740

 8.6076, 1.9086,  
19.9489

 174.6928,  
113.4969, 264.2337

 4.5412, 0.5535,  
12.1742

 214.2324,  
144.0262, 318.4177

 2.0126, 0.0000,  
6.7385

259.3287,

 0.6410, 0.0000,

179.5911, 379.5446

3.2231

310.3472,  
220.5760, 448.0330

■ 0.0000, 0.0000,  
1.2097

■ 0.0000, 0.0000,  
0.0000

■ 47.5590, 22.9300,  
82.8082

■ 47.5590, 22.9300,  
82.8082

■ 47.2595, 22.5804,  
82.7568

■ 48.3891, 24.0917,  
82.9890

■ 49.6971, 26.2072,  
83.3284

■ 51.5661, 29.4416,  
83.8542

■ 54.0628, 33.9285,  
84.5887

■ 57.2448, 39.7828,  
85.5509

■ 61.1630, 47.1065,  
86.7580

■ 65.8635, 55.9917,  
88.2253

■ 71.3885, 66.5230,  
89.9669

■ 77.7776, 78.7792,  
91.9958

# Harmonies

## Analogous

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



33.9313, 22.9300, 144.8388



47.5590, 22.9300, 82.8082



54.2842, 22.9300, 29.2467

# Triad

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



47.5590, 22.9300, 82.8082



23.2415, 22.9300, 0.0000



6.8912, 22.9300, 68.1453

# Complementary

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



47.5590, 22.9300, 82.8082



30.9727, 61.3468, 10.5575

# 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.



5.8337, 22.9300, 21.1263



47.5590, 22.9300, 82.8082



12.9634, 22.9300, 0.0000

# Square

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



47.5590, 22.9300, 82.8082



37.3344, 22.9300, 0.2736



7.5697, 22.9300, 3.2863



11.3047, 22.9300, 132.1336



# Rectangle

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



47.5590, 22.9300, 82.8082



52.6157, 22.9300, 10.4024



7.5697, 22.9300, 3.2863



6.2231, 22.9300, 49.1283

# Sweetspot

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



47.5600, 22.9310, 82.8087



75.1947, 62.0007, 102.6119



15.8977, 6.8774, 81.3788



15.5881, 12.3132, 21.8051



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.



47.5600, 22.9310, 82.8087



55.2600, 26.4025, 96.7914



39.8582, 20.2274, 25.2134



16.3811, 15.9937, 19.9453



26.3961, 12.6131, 46.1712



2.2171, 1.0602, 3.8420



# Inverse Universe

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



35.5370, 18.4990, 2.4582



41.3021, 21.2848, 2.2568



33.7479, 62.4362, 26.1081



15.8011, 15.7702, 16.5091



19.7160, 10.1588, 1.1550



1.6501, 0.8491, 0.1482



# Previews

## White Background



This preview shows how the XYZ color 47.5590, 22.9300, 82.8082 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

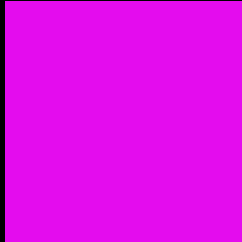
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 47.5590, 22.9300, 82.8082 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

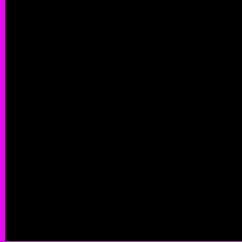
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 47.5590, 22.9300, 82.8082**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.5590, 22.9300, 82.8082.



This preview shows how white text looks on a background with the XYZ color 47.5590, 22.9300,

82.8082.

# 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

47.5590, 22.9300, 82.8082

### Protanopia

27.5311, 23.7613, 97.7431

### Deuteranopia

24.2944, 23.6253, 73.8007



## Tritanopia

33.4543, 22.9226, 14.7178

# Trichromacy



## Original Color

47.5590, 22.9300, 82.8082



## Protanomaly

28.0344, 17.4171, 91.5068



## Deuteranomaly

26.4032, 17.4051, 76.0967



## Tritanomaly

36.2519, 20.7742, 30.9533

# Monochromacy



## Original Color

47.5590, 22.9300, 82.8082



## Achromatopsia

12.6291, 13.2868, 14.4694



## Achromatomaly

19.9268, 12.7865, 30.6959

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.5590, 22.9300, 82.8082 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(228, 12, 238)` looks like.

```
.text, #text, p{  
    color:rgb(228, 12, 238)  
}
```

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(228, 12, 238) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 12, 238) }
```

## Border

The CSS property to change the border of an element to XYZ 47.5590, 22.9300, 82.8082 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(228, 12, 238) }
```



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

```
.border{ border-color:rgb(228, 12, 238) }
```

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

Here you see how a box with a 4 pixel `rgb(228, 12, 238)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 12, 238); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 12, 238);  
box-shadow:4px 4px 4px 4px rgb(228, 12,  
238) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.5590, 22.9300, 82.8082 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 12, 238) }
```

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

```
.background{ background-color: rgb(228, 12,  
238) }
```

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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