

# Converting Colors

XYZ(48.7712, 23.1017, 17.4989)

Have a look what the booklet for  
XYZ(48.7712, 23.1017, 17.4989)  
contains.

<b>XYZ(44.2206, 22.4523, 17.6258)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(44.2206, 22.4523,  
17.6258)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF0071
RGB	255, 0, 113
RGB Percent	100%, 0%, 44%
CMY	0.0000, 0.9997, 0.5569
CMYK	0.00, 1.00, 0.56, 0.00
HSL	333°, 100%, 50%
HSV	333°, 100%, 100%
XYZ	44.2206, 22.4523, 17.6258
YIQ	89.1270, 115.7070, 89.2030

# Conversions

## Conversions Part 2

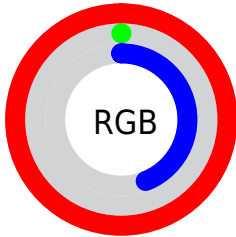
<b>Format</b>	<b>Color</b>
<b>R<sub>Y</sub>B</b>	255, 0, 113
Decimal	16711793
CIE <sub>Lab</sub>	54.50, 83.54, 12.56
CIE <sub>LCh</sub>	55, 84.478, 8.549
Yxy	22.4523, 0.5246, 0.2663
Android (android.graphics.Color)	4294901873 (0xFFFF0071)
YUV	89.1270, 11.7694, 145.4706
Hunter-Lab	47.3839, 83.6619, 11.1141

# Details

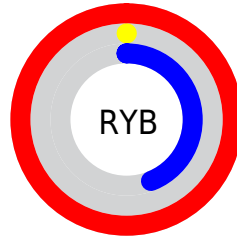
The XYZ color **44.2206, 22.4523, 17.6258** is a dark color, and the websafe version is hex **FF0066**. The color can be described as dark saturated rose. A complement of this color would be **40.6484, 73.4751, 37.6585**, and the grayscale version is **9.4891, 9.9833, 10.8718**.

A 20% lighter version of the original color is **52.4027, 32.8640, 38.7034**, and **22.4692, 11.4697, 6.1839** is the 20% darker color. If you saturate the color by 10%, you get **44.2182, 22.4512, 17.6141**, and if you desaturate by 10%, it is **45.4438, 23.5174, 22.2926**.

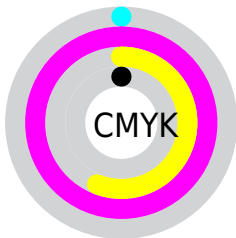
# Distribution



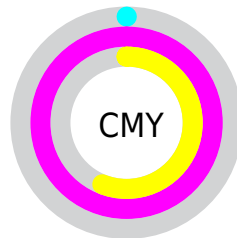
- Red (100%)
- Green (0%)
- Blue (44%)



- Red (100%)
- Yellow (0%)
- Blue (44%)



- Cyan (0%)
- Magenta (100%)
- Yellow (56%)
- Black (0%)



- Cyan (0%)
- Magenta (100%)
- Yellow (56%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 44.2206, 22.4523, 17.6258 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 44.2206, 22.4523, 17.6258 by changing the saturation by 10% instead.



44.2206, 22.4523,  
17.6258

44.2206, 22.4523,  
17.6258

354.4448,  
264.8993, 250.9182

31.0426, 14.1896,  
10.5150

80.7939, 47.4924,  
40.2039

20.7833, 8.2527,  
5.6317

104.9199, 65.0387,  
56.5084

13.0772, 4.2570,  
2.5573

133.4260, 86.4482,  
76.7145

7.5591, 1.8184,  
0.8703

166.6775,  
112.1054, 101.2407

3.8636, 0.4986,  
0.0000

205.0398,  
142.3948, 130.5057

1.6252, 0.0000,  
0.0000

248.8782,

0.4088, 0.0000,

177.7006, 164.9279

0.0000

298.5580,  
218.4073, 204.9259

■ 0.0000, 0.0000,  
0.0000

■ 44.2206, 22.4523,  
17.6258

■ 44.2206, 22.4523,  
17.6258

■ 44.2182, 22.4512,  
17.6141

■ 45.4438, 23.5174,  
22.2926

■ 47.2648, 25.5690,  
27.8029

■ 49.8316, 28.8949,  
34.2313

■ 53.2363, 33.6718,  
41.6323

■ 57.5568, 40.0480,  
50.0546

■ 62.8614, 48.1530,  
59.5426

■ 69.2115, 58.1032,  
70.1375

■ 76.6636, 70.0048,  
81.8781

■ 85.2697, 83.9557,  
94.8008

# Harmonies

## Analogous

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



42.5595, 22.4523, 48.2250



44.2206, 22.4523, 17.6258



38.5040, 22.4523, 4.4541

# Triad

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



44.2206, 22.4523, 17.6258



12.0599, 22.4523, 2.3254



15.4711, 22.4523, 109.1849

# Complementary

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



44.2206, 22.4523, 17.6258



40.6484, 73.4751, 37.6585

# 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.



10.2284, 22.4523, 71.9517



44.2206, 22.4523, 17.6258



8.6922, 22.4523, 10.1431

# Square

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



44.2206, 22.4523, 17.6258



18.8025, 22.4523, 0.7293



8.1358, 22.4523, 32.8332



24.0966, 22.4523, 117.4231



# Rectangle

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



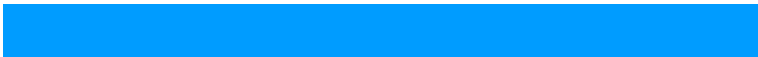
44.2206, 22.4523, 17.6258



32.0381, 22.4523, 1.6498



8.1358, 22.4523, 32.8332



13.3361, 22.4523, 98.8001

# Sweetspot

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



44.2212, 22.4537, 17.6261



69.1928, 58.0732, 70.1069



28.9134, 12.8214, 95.5580



14.2092, 11.4829, 14.0205



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.



44.2212, 22.4537, 17.6261



44.2184, 22.4514, 17.6142



41.3817, 21.5432, 1.9792



18.3437, 18.1208, 20.4271



23.1774, 11.7603, 9.5846



2.3106, 1.1666, 1.2171



# Inverse Universe

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



44.2212, 22.4537, 17.6261



44.2184, 22.4514, 17.6142



49.8782, 70.8753, 105.6586



18.3437, 18.1208, 20.4271



23.1774, 11.7603, 9.5846



2.3106, 1.1666, 1.2171



# Previews

## White Background



This preview shows how the XYZ color 44.2206, 22.4523, 17.6258 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

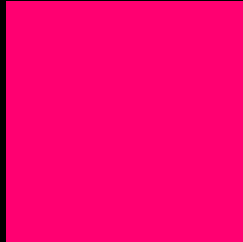
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 44.2206, 22.4523, 17.6258 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

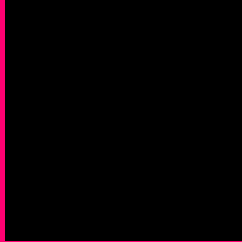
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 44.2206, 22.4523, 17.6258**

## **Background**



This preview shows how black text looks on a background with the XYZ color 44.2206, 22.4523, 17.6258.



This preview shows how white text looks on a background with the XYZ color 44.2206, 22.4523,

17.6258.

# 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

44.2206, 22.4523, 17.6258

### Protanopia

22.9957, 22.9307, 38.3360

### Deuteranopia

23.1856, 22.7510, 15.7398



## Tritanopia

41.5379, 22.7541, 4.5856

# Trichromacy



## Original Color

44.2206, 22.4523, 17.6258



## Protanomaly

25.2173, 17.0015, 28.7406



## Deuteranomaly

26.9560, 17.8543, 15.6612



## Tritanomaly

42.0216, 22.1910, 7.6987

# Monochromacy



## Original Color

44.2206, 22.4523, 17.6258



## Achromatopsia

9.4954, 9.9899, 10.8790



## Achromatomaly

16.0622, 10.1977, 12.6770

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 44.2206, 22.4523, 17.6258 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(255, 0, 113)` looks like.

```
.text, #text, p{  
    color:rgb(255, 0, 113)  
}
```

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(255, 0, 113) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 0, 113) }
```

## Border

The CSS property to change the border of an element to XYZ 44.2206, 22.4523, 17.6258 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(255, 0, 113) }
```



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

```
.border{ border-color:rgb(255, 0, 113) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 0, 113)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 0, 113); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 0, 113);  
box-shadow:4px 4px 4px 4px rgb(255, 0,  
113) }
```

# Background

The CSS property to change the background color of an element to XYZ 44.2206, 22.4523, 17.6258 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 0, 113) }
```

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

```
.background{ background-color: rgb(255, 0,  
113) }
```

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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