

# Converting Colors

XYZ(44.7678, 23.9298, 16.6267)

Have a look what the booklet for  
XYZ(44.7678, 23.9298, 16.6267)  
contains.

<b>XYZ(44.7933, 23.9500, 16.7299)</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(44.7933, 23.9500,  
16.7299)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF296D
RGB	255, 41, 109
RGB Percent	100%, 16%, 43%
CMY	0.0000, 0.8391, 0.5725
CMYK	0.00, 0.84, 0.57, 0.00
HSL	341°, 100%, 58%
HSV	341°, 84%, 100%
XYZ	44.7933, 23.9500, 16.7299
YIQ	112.7380, 105.7160, 66.5160

# Conversions

## Conversions Part 2

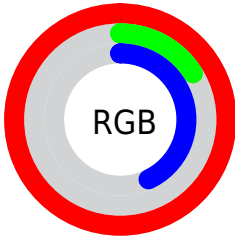
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 41, 109
Decimal	16722285
CIE Lab	56.04, 78.59, 17.08
CIE LCh	56, 80.428, 12.262
Yxy	23.9500, 0.5241, 0.2802
Android (android.graphics.Color)	4294912365 (0xFFFF296D)
YUV	112.7380, -1.8428, 124.7638
Hunter-Lab	48.9387, 77.7371, 13.9886

# Details

The XYZ color **44.7933, 23.9500, 16.7299** is a dark color, and the websafe version is hex **FF0066**. The color can be described as dark washed rose. A complement of this color would be **45.6471, 75.5804, 59.2081**, and the grayscale version is **15.6048, 16.4175, 17.8786**.

A 20% lighter version of the original color is **53.3793, 35.3864, 37.2746**, and **22.3554, 11.4242, 5.5843** is the 20% darker color. If you saturate the color by 10%, you get **43.3325, 22.3823, 12.0704**, and if you desaturate by 10%, it is **47.0104, 26.7343, 22.5565**.

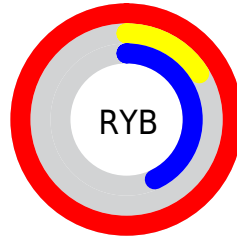
# Distribution



Red (100%)

Green (16%)

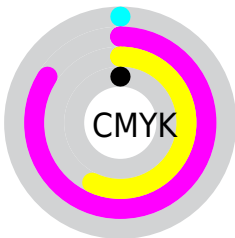
Blue (43%)



Red (100%)

Yellow (16%)

Blue (43%)

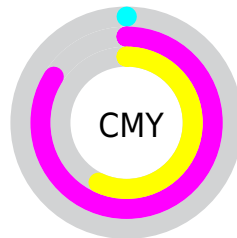


Cyan (0%)

Magenta (84%)

Yellow (57%)

Black (0%)



Cyan (0%)

Magenta (84%)


Yellow (57%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 44.7933, 23.9500, 16.7299 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 44.7933, 23.9500, 16.7299 by changing the saturation by 10% instead.





 44.7933, 23.9500,  
16.7299


 44.7933, 23.9500,  
16.7299


356.7336,  
272.5676, 245.6021


 31.4952, 15.2965,  
9.8822


 81.6491, 49.9486,  
38.6451

 21.1299, 9.0278,  
5.2163


 105.9376, 68.0625,  
54.5496


 13.3320, 4.7593,  
2.3138


 134.6202, 90.0987,  
74.3101

 7.7361, 2.1067,  
0.7389

 168.0624,  
116.4416, 98.3452

 3.9770, 0.6684,  
0.0000

 206.6295,  
147.4755, 127.0734

 1.6891, 0.0000,  
0.0000

250.6868,

 0.4494, 0.0000,

183.5849, 160.9133

0.0000

300.5997,  
225.1541, 200.2833

■ 0.0000, 0.0000,  
0.0000

■ 44.7933, 23.9500,  
16.7299

■ 44.7933, 23.9500,  
16.7299

■ 43.3325, 22.3823,  
12.0704

■ 47.0104, 26.7343,  
22.5565

■ 42.7255, 21.8542,  
9.7531

■ 50.0875, 30.9254,  
29.6340

■ 54.1125, 36.6845,  
38.0381

■ 59.1614, 44.1496,  
47.8374

■ 65.3022, 53.4434,  
59.0952

72.5967, 64.6771,  
71.8707

81.1021, 77.9532,  
86.2196

90.8717, 93.3668,  
102.1948

95.0499, 99.9999,  
108.9000

# Harmonies

## Analogous

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



44.1101, 23.9500, 44.7564



44.7933, 23.9500, 16.7299



38.5246, 23.9500, 4.6910

# Triad

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



44.7933, 23.9500, 16.7299



12.8195, 23.9500, 3.6829



17.7888, 23.9500, 110.2071

# Complementary

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



44.7933, 23.9500, 16.7299



45.6471, 75.5804, 59.2081

# 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.



12.0218, 23.9500, 77.1386



44.7933, 23.9500, 16.7299



9.7305, 23.9500, 13.4882

# Square

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



44.7933, 23.9500, 16.7299



19.2097, 23.9500, 1.2914



9.4844, 23.9500, 38.3846



26.7311, 23.9500, 113.5135



# Rectangle

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



44.7933, 23.9500, 16.7299



32.0290, 23.9500, 2.0282



9.4844, 23.9500, 38.3846



15.4836, 23.9500, 101.5240

# Sweetspot

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



44.7939, 23.9514, 16.7303



71.7464, 63.3591, 70.4071



38.5327, 18.9574, 96.2357



14.7890, 12.6844, 14.0842



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.



44.7939, 23.9514, 16.7303



42.7256, 21.8542, 9.7531



44.2723, 26.6839, 4.9169



18.2471, 18.0822, 19.9185



22.3846, 11.4431, 5.4098



2.2267, 1.1330, 0.7750



# Inverse Universe

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



44.7939, 23.9514, 16.7303



42.7256, 21.8542, 9.7531



44.3847, 58.5307, 103.5657



18.2471, 18.0822, 19.9185



22.3846, 11.4431, 5.4098



2.2267, 1.1330, 0.7750



# Previews

## White Background



This preview shows how the XYZ color 44.7933, 23.9500, 16.7299 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

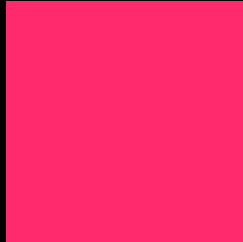
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 44.7933, 23.9500, 16.7299 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 44.7933, 23.9500, 16.7299**

## **Background**



This preview shows how black text looks on a background with the XYZ color 44.7933, 23.9500, 16.7299.



This preview shows how white text looks on a background with the XYZ color 44.7933, 23.9500,



# 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

44.7933, 23.9500, 16.7299

### Protanopia

23.7906, 24.2556, 33.5649

### Deuteranopia

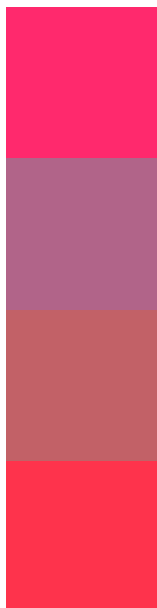
24.4005, 23.9723, 15.1455



## Tritanopia

42.6607, 24.0064, 6.2561

# Trichromacy



## Original Color

44.7933, 23.9500, 16.7299

## Protanomaly

27.2040, 20.2676, 26.1451

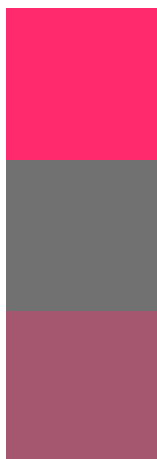
## Deuteranomaly

28.9710, 20.9980, 15.3580

## Tritanomaly

43.3614, 23.9603, 9.1769

# Monochromacy



## Original Color

44.7933, 23.9500, 16.7299

## Achromatopsia

15.6958, 16.5132, 17.9829

## Achromatomaly

21.8499, 15.9856, 17.2631

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 44.7933, 23.9500, 16.7299 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, 41, 109)` looks like.

```
.text, #text, p{  
    color:rgb(255, 41, 109)  
}
```

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, 41, 109) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 41, 109) }
```

## Border

The CSS property to change the border of an element to XYZ 44.7933, 23.9500, 16.7299 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, 41, 109) }
```



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

```
.border{ border-color:rgb(255, 41, 109) }
```

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

Here you see how a box with a 4 pixel rgb(255, 41, 109) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 41, 109); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 41, 109);  
box-shadow:4px 4px 4px 4px rgb(255, 41,  
109) }
```

# Background

The CSS property to change the background color of an element to XYZ 44.7933, 23.9500, 16.7299 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 41, 109) }
```

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

```
.background{ background-color: rgb(255, 41,  
109) }
```

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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