

# Converting Colors

XYZ(50.2972, 29.2926, 16.9040)

Have a look what the booklet for  
XYZ(50.2972, 29.2926, 16.9040)  
contains.

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# Color

**XYZ(46.3426, 27.2191,  
16.7212)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF4A6B
RGB	255, 74, 107
RGB Percent	100%, 29%, 42%
CMY	0.0000, 0.7098, 0.5804
CMYK	0.00, 0.71, 0.58, 0.00
HSL	349°, 100%, 65%
HSV	349°, 71%, 100%
XYZ	46.3426, 27.2191, 16.7212
YIQ	131.8810, 97.2830, 48.6350

# Conversions

## Conversions Part 2

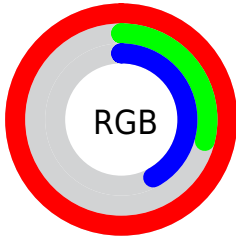
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 74, 107
Decimal	16730731
CIE Lab	59.18, 69.50, 22.51
CIE LCh	59, 73.054, 17.949
Yxy	27.2191, 0.5133, 0.3015
Android (android.graphics.Color)	4294920811 (0xFFFF4A6B)
YUV	131.8810, -12.2663, 107.9754
Hunter-Lab	52.1719, 67.2548, 17.5178

# Details

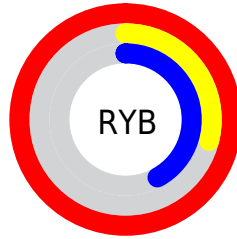
The XYZ color **46.3426, 27.2191, 16.7212** is a dark color, and the websafe version is hex **FF3366**. The color can be described as middle washed rose. A complement of this color would be **51.7712, 78.2505, 81.4905**, and the grayscale version is **21.9093, 23.0502, 25.1017**.

A 20% lighter version of the original color is **55.9367, 40.7788, 37.2707**, and **22.3015, 11.4026, 5.3005** is the 20% darker color. If you saturate the color by 10%, you get **44.0035, 24.0902, 11.1661**, and if you desaturate by 10%, it is **49.6369, 31.8356, 23.9000**.

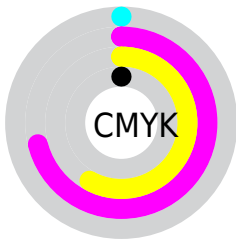
# Distribution



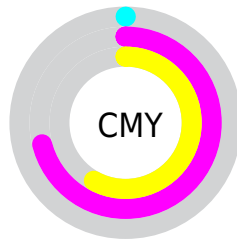
- Red (100%)
- Green (29%)
- Blue (42%)



- Red (100%)
- Yellow (29%)
- Blue (42%)



- Cyan (0%)
- Magenta (71%)
- Yellow (58%)
- Black (0%)




- Cyan (0%)
- Magenta (71%)
- Yellow (58%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.3426, 27.2191, 16.7212 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 46.3426, 27.2191, 16.7212 by changing the saturation by 10% instead.





 46.3426, 27.2191,  
16.7212

 46.3426, 27.2191,  
16.7212

362.8772,  
288.7164, 245.5499


 32.7220, 17.7378,  
9.8761


 83.9562, 55.2353,  
38.6299


 22.0718, 10.7619,  
5.2123


 108.6800, 74.5389,  
54.5305


 14.0266, 5.9070,  
2.3115


 137.8355, 97.8856,  
74.2866

 8.2210, 2.7886,  
0.7376

 171.7882,  
125.6595, 98.3169

 4.2897, 1.0224,  
0.0000

 210.9033,  
158.2452, 127.0398

 1.8673, 0.0000,  
0.0000

255.5463,

 0.5577, 0.0000,

196.0269, 160.8739

0.0000

306.0825,  
239.3892, 200.2378

■ 0.0000, 0.0000,  
0.0000

■ 46.3426, 27.2191,  
16.7212

■ 46.3426, 27.2191,  
16.7212

■ 44.0035, 24.0902,  
11.1661

■ 49.6369, 31.8356,  
23.9000

■ 42.5092, 22.2583,  
7.1019


■ 53.9762, 38.0908,  
32.8178


■ 41.7424, 21.4609,  
4.5768

■ 59.4419, 46.1220,  
43.5804

■ 66.1066, 56.0510,  
56.2847

■ 74.0367, 67.9887,  
71.0208

 83.2938, 82.0374,  
87.8731

 93.9354, 98.2925,  
106.9211

95.0498, 99.9999,  
108.9000

# Harmonies

## Analogous

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



47.0332, 27.2191, 41.3795



46.3426, 27.2191, 16.7212



39.4497, 27.2191, 5.8271

# Triad

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



46.3426, 27.2191, 16.7212



14.9318, 27.2191, 7.1486



22.3868, 27.2191, 110.6210

# Complementary

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



46.3426, 27.2191, 16.7212



51.7712, 78.2505, 81.4905

# 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.



15.8317, 27.2191, 84.5931



46.3426, 27.2191, 16.7212



12.2544, 27.2191, 20.3570

# Square

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



46.3426, 27.2191, 16.7212



20.8447, 27.2191, 2.9570



12.5397, 27.2191, 47.9171



31.6464, 27.2191, 107.4413



# Rectangle

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



46.3426, 27.2191, 16.7212



33.0120, 27.2191, 3.2289



12.5397, 27.2191, 47.9171



19.8419, 27.2191, 104.5715

# Sweetspot

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



46.3433, 27.2207, 16.7216



74.0160, 67.9571, 70.9824



50.5681, 27.6201, 97.2732



15.3461, 13.7961, 14.2780



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.



46.3433, 27.2207, 16.7216



43.3076, 23.2088, 9.3592



50.6363, 38.0745, 11.1611



18.1446, 18.0411, 19.3784



21.8501, 11.2293, 2.5950



2.1622, 1.1072, 0.4355



# Inverse Universe

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



46.3433, 27.2207, 16.7216



43.3076, 23.2088, 9.3592



40.9975, 48.9215, 101.8892



18.1446, 18.0411, 19.3784



21.8501, 11.2293, 2.5950



2.1622, 1.1072, 0.4355



# Previews

## White Background



This preview shows how the XYZ color 46.3426, 27.2191, 16.7212 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

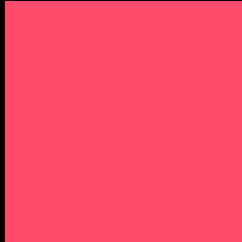
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.3426, 27.2191, 16.7212 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

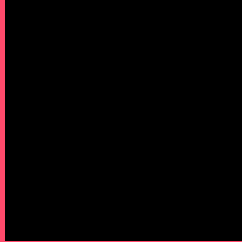
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 46.3426, 27.2191, 16.7212**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.3426, 27.2191, 16.7212.



This preview shows how white text looks on a background with the XYZ color 46.3426, 27.2191,



# 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

46.3426, 27.2191, 16.7212

### Protanopia

26.1873, 27.3211, 28.3194

### Deuteranopia

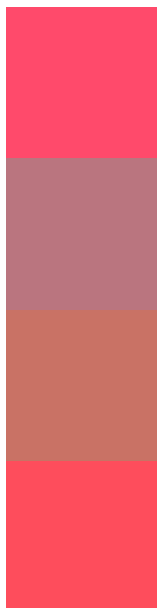
27.7278, 27.3192, 15.3670



## Tritanopia

45.2304, 27.2873, 11.0667

# Trichromacy



## Original Color

46.3426, 27.2191, 16.7212

## Protanomaly

30.4418, 24.6940, 23.2406

## Deuteranomaly

32.4537, 25.3917, 15.5025

## Tritanomaly

45.4587, 27.1513, 12.9700

# Monochromacy



## Original Color

46.3426, 27.2191, 16.7212

## Achromatopsia

21.9318, 23.0740, 25.1276

## Achromatomaly

27.3911, 22.1461, 21.5698

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.3426, 27.2191, 16.7212 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, 74, 107)` looks like.

```
.text, #text, p{  
    color:rgb(255, 74, 107)  
}
```

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, 74, 107) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 74, 107) }
```

## Border

The CSS property to change the border of an element to XYZ 46.3426, 27.2191, 16.7212 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, 74, 107) }
```



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

```
.border{ border-color:rgb(255, 74, 107) }
```

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

Here you see how a box with a 4 pixel rgb(255, 74, 107) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 74, 107); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 74, 107);  
box-shadow:4px 4px 4px 4px rgb(255, 74,  
107) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.3426, 27.2191, 16.7212 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 74, 107) }
```

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

```
.background{ background-color: rgb(255, 74,  
107) }
```

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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