

# Converting Colors

XYZ(47.2243, 27.8442, 20.5243)

Have a look what the booklet for  
XYZ(47.2243, 27.8442, 20.5243)  
contains.

<b>XYZ(47.2840, 27.9238, 20.6670)</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(47.2840, 27.9238,  
20.6670)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF4D78
RGB	255, 77, 120
RGB Percent	100%, 30%, 47%
CMY	0.0000, 0.6980, 0.5294
CMYK	0.00, 0.70, 0.53, 0.00
HSL	346°, 100%, 65%
HSV	346°, 70%, 100%
XYZ	47.2840, 27.9238, 20.6670
YIQ	135.1240, 92.2850, 51.1090

# Conversions

## Conversions Part 2

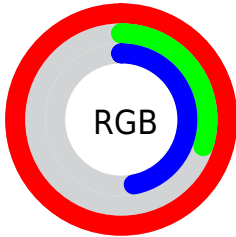
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 77, 120
Decimal	16731512
CIE <sub>Lab</sub>	59.82, 69.37, 15.78
CIE <sub>LCh</sub>	60, 71.146, 12.818
Yxy	27.9238, 0.4932, 0.2913
Android (android.graphics.Color)	4294921592 (0xFFFF4D78)
YUV	135.1240, -7.4561, 105.1313
Hunter-Lab	52.8430, 67.2470, 13.8016

# Details

The XYZ color **47.2840, 27.9238, 20.6670** 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 **50.7064, 77.8519, 74.6488**, and the grayscale version is **23.0796, 24.2816, 26.4426**.

A 20% lighter version of the original color is **57.6321, 42.1299, 44.1241**, and **22.9079, 11.6743, 7.1769** is the 20% darker color. If you saturate the color by 10%, you get **44.7784, 24.6055, 14.6139**, and if you desaturate by 10%, it is **50.7268, 32.7376, 28.2026**.

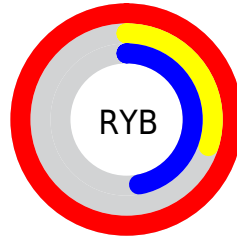
# Distribution



Red (100%)

Green (30%)

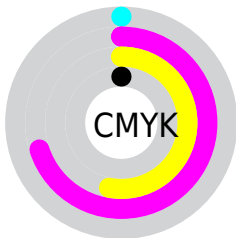
Blue (47%)



Red (100%)

Yellow (30%)

Blue (47%)

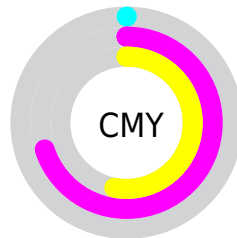


Cyan (0%)

Magenta (70%)

Yellow (53%)

Black (0%)



Cyan (0%)

Magenta (70%)


Yellow (53%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.2840, 27.9238, 20.6670 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 47.2840, 27.9238, 20.6670 by changing the saturation by 10% instead.





 47.2840, 27.9238,  
20.6670


 47.2840, 27.9238,  
20.6670

366.5770,  
292.1026, 268.2261

 33.4691, 18.2682,  
12.6919

 85.3536, 56.3628,  
45.4062


 22.6470, 11.1427,  
7.0885


 110.3389, 75.9149,  
63.0075

 14.4523, 6.1629,  
3.4382


 139.7785, 99.5348,  
84.6546

 8.5197, 2.9444,  
1.3225

 174.0377,  
127.6067, 110.7660

 4.4839, 1.1028,  
0.0801

213.4817,  
160.5150, 141.7603

 1.9793, 0.0000,  
0.0000

258.4761,

 0.6223, 0.0000,

198.6442, 178.0561

0.0000

309.3861,  
242.3786, 220.0719

■ 0.0000, 0.0000,  
0.0000

■ 47.2840, 27.9238,  
20.6670

■ 47.2840, 27.9238,  
20.6670

■ 44.7784, 24.6055,  
14.6139

■ 50.7268, 32.7376,  
28.2026

■ 43.1066, 22.5981,  
9.9373

■ 55.1910, 39.1935,  
37.3129

■ 42.1142, 21.6186,  
6.5073

■ 60.7532, 47.4255,  
48.0839

■ 42.0981, 21.6032,  
6.4496

■ 67.4821, 57.5527,  
60.5948

■ 75.4406, 69.6837,  
74.9193

84.6869, 83.9188,  
91.1270

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.



46.7838, 27.9238, 47.5527



47.2840, 27.9238, 20.6670



41.3935, 27.9238, 7.6057

# Triad

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



47.2840, 27.9238, 20.6670



16.4167, 27.9238, 6.5933



21.7426, 27.9238, 106.7650

# Complementary

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



47.2840, 27.9238, 20.6670



50.7064, 77.8519, 74.6488

# 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.



15.7485, 27.9238, 78.1648



47.2840, 27.9238, 20.6670



13.1861, 27.9238, 17.9711

# Square

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



47.2840, 27.9238, 20.6670



22.8779, 27.9238, 3.1429



12.9730, 27.9238, 42.8012



30.5751, 27.9238, 109.0410



# Rectangle

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



47.2840, 27.9238, 20.6670



35.2725, 27.9238, 4.1738



12.9730, 27.9238, 42.8012



19.3838, 27.9238, 99.3939

# Sweetspot

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



47.2847, 27.9254, 20.6675



74.4184, 68.1181, 73.1014



47.4263, 26.3049, 97.1850



15.4403, 13.8338, 14.7737



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.



47.2847, 27.9254, 20.6675



43.9813, 23.6142, 12.4882



49.4791, 35.5946, 11.2860



18.1892, 18.0590, 19.6135



22.0457, 11.3076, 3.6253



2.1872, 1.1173, 0.5673



# Inverse Universe

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



47.2847, 27.9254, 20.6675



43.9813, 23.6142, 12.4882



44.2823, 55.1400, 102.9164



18.1892, 18.0590, 19.6135



22.0457, 11.3076, 3.6253



2.1872, 1.1173, 0.5673



# Previews

## White Background



This preview shows how the XYZ color 47.2840, 27.9238, 20.6670 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

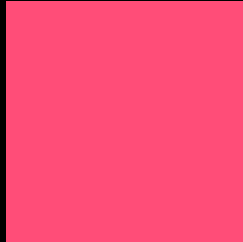
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.2840, 27.9238, 20.6670 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

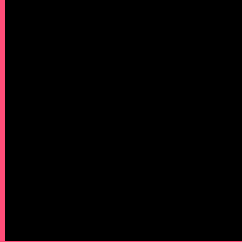
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 47.2840, 27.9238, 20.6670**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.2840, 27.9238, 20.6670.



This preview shows how white text looks on a background with the XYZ color 47.2840, 27.9238,



# 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

47.2840, 27.9238, 20.6670

### Protanopia

27.3076, 28.2089, 34.5774

### Deuteranopia

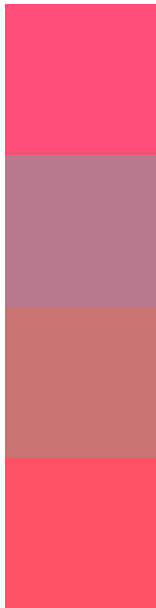
28.4640, 28.0480, 18.9525



## Tritanopia

45.4398, 27.9279, 12.2282

# Trichromacy



## Original Color

47.2840, 27.9238, 20.6670

## Protanomaly

31.3661, 25.5763, 28.8747

## Deuteranomaly

33.1021, 25.9850, 19.1905

## Tritanomaly

46.1157, 27.8758, 15.0066

# Monochromacy



## Original Color

47.2840, 27.9238, 20.6670

## Achromatopsia

23.0288, 24.2281, 26.3844

## Achromatomaly

28.6370, 23.2300, 24.0936

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.2840, 27.9238, 20.6670 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, 77, 120)` looks like.

```
.text, #text, p{  
    color:rgb(255, 77, 120)  
}
```

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, 77, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 77, 120) }
```

## Border

The CSS property to change the border of an element to XYZ 47.2840, 27.9238, 20.6670 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, 77, 120) }
```



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

```
.border{ border-color:rgb(255, 77, 120) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 77, 120)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 77, 120); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 77, 120);  
box-shadow:4px 4px 4px 4px rgb(255, 77,  
120) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.2840, 27.9238, 20.6670 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 77, 120) }
```

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

```
.background{ background-color: rgb(255, 77,  
120) }
```

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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