

# Converting Colors

XYZ(49.3065, 31.6961, 22.1820)

Have a look what the booklet for  
XYZ(49.3065, 31.6961, 22.1820)  
contains.

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# Color

**XYZ(49.2770, 31.6137,  
22.2438)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF637B
RGB	255, 99, 123
RGB Percent	100%, 39%, 48%
CMY	0.0000, 0.6117, 0.5176
CMYK	0.00, 0.61, 0.52, 0.00
HSL	351°, 100%, 69%
HSV	351°, 61%, 100%
XYZ	49.2770, 31.6137, 22.2438
YIQ	148.3800, 85.2720, 40.5360

# Conversions

## Conversions Part 2

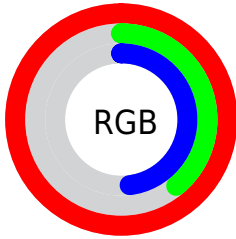
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 99, 123
Decimal	16737147
CIE Lab	63.02, 61.06, 18.45
CIE LCh	63, 63.787, 16.817
Yxy	31.6137, 0.4778, 0.3065
Android (android.graphics.Color)	4294927227 (0xFFFF637B)
YUV	148.3800, -12.5123, 93.5057
Hunter-Lab	56.2261, 58.0433, 15.9023

# Details

The XYZ color **49.2770, 31.6137, 22.2438** is a light color, and the websafe version is hex **FF6666**. A complement of this color would be **55.3314, 79.9429, 88.1215**, and the grayscale version is **28.3340, 29.8096, 32.4626**.

A 20% lighter version of the original color is **60.8663, 48.1321, 46.6399**, and **23.9554, 13.2317, 7.9480** is the 20% darker color. If you saturate the color by 10%, you get **46.0258, 27.0401, 15.2143**, and if you desaturate by 10%, it is **53.5899, 37.8346, 31.0964**.

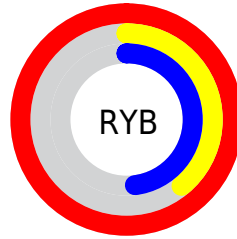
# Distribution



Red (100%)

Green (39%)

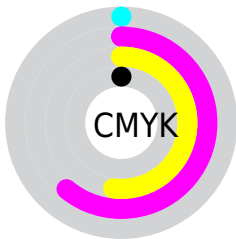
Blue (48%)



Red (100%)

Yellow (39%)

Blue (48%)

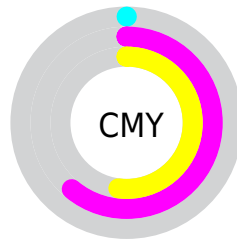


Cyan (0%)

Magenta (61%)

Yellow (52%)

Black (0%)



Cyan (0%)

Magenta (61%)


Yellow (52%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.2770, 31.6137, 22.2438 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 49.2770, 31.6137, 22.2438 by changing the saturation by 10% instead.





 49.2770, 31.6137,  
22.2438


 49.2770, 31.6137,  
22.2438

374.3307,  
309.3558, 276.8117

 35.0547, 21.0666,  
13.8361


 88.3010, 62.2050,  
48.0560


 23.8717, 13.1727,  
7.8693


 113.8334, 83.0180,  
66.2975

 15.3627, 7.5476,  
3.9249


 143.8665,  
108.0218, 88.6541

 9.1623, 3.8068,  
1.5842

 178.7657,  
137.6007, 115.5443

 4.9052, 1.5661,  
0.2795

218.8964,  
172.1391, 147.3866

 2.2259, 0.3346,  
0.0000

264.6239,

 0.7563, 0.0000,

212.0215, 184.5996

0.0000

316.3135,  
257.6323, 227.6018

■ 0.0000, 0.0000,  
0.0000

■ 49.2770, 31.6137,  
22.2438

■ 49.2770, 31.6137,  
22.2438

■ 46.0258, 27.0401,  
15.2143

■ 53.5899, 37.8346,  
31.0964

■ 43.7394, 23.9515,  
9.8772

■ 59.0450, 45.8345,  
41.8868

■ 42.3071, 22.1616,  
6.0865

■ 65.7177, 55.7378,  
54.7220

■ 41.6097, 21.4079,  
3.8776

■ 73.6760, 67.6564,  
69.7008

■ 82.9833, 81.6933,  
86.9153

93.6982, 97.9444,  
106.4523

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.



49.6632, 31.6137, 46.6675



49.2770, 31.6137, 22.2438



43.1440, 31.6137, 9.8343

# Triad

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



49.2770, 31.6137, 22.2438



19.3430, 31.6137, 10.8048



26.3599, 31.6137, 106.2120

# Complementary

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



49.2770, 31.6137, 22.2438



55.3314, 79.9429, 88.1215

# 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.



19.9127, 31.6137, 83.0786



49.2770, 31.6137, 22.2438



16.4263, 31.6137, 24.5311

# Square

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



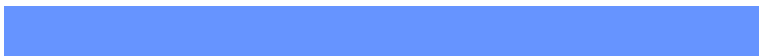
49.2770, 31.6137, 22.2438



25.4238, 31.6137, 5.7848



16.6122, 31.6137, 50.3891



35.2012, 31.6137, 104.5393



# Rectangle

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



49.2770, 31.6137, 22.2438



37.1956, 31.6137, 6.3623



16.6122, 31.6137, 50.3891



23.8801, 31.6137, 100.7351

# Sweetspot

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



49.2778, 31.6154, 22.2443



76.4803, 71.8761, 74.9165



54.8262, 32.8036, 98.0495



15.8184, 14.5544, 15.0095



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.



49.2778, 31.6154, 22.2443



45.5390, 26.3699, 14.1168



54.5600, 44.2961, 17.4811



18.1232, 18.0326, 19.2661



21.7757, 11.1996, 2.2035



2.1518, 1.1031, 0.3811



# Inverse Universe

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



49.2778, 31.6154, 22.2443



45.5390, 26.3699, 14.1168



44.5531, 52.5864, 102.4094



18.1232, 18.0326, 19.2661



21.7757, 11.1996, 2.2035



2.1518, 1.1031, 0.3811



# Previews

## White Background



This preview shows how the XYZ color 49.2770, 31.6137, 22.2438 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 49.2770, 31.6137, 22.2438 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 ✓ Pass

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

**XYZ 49.2770, 31.6137, 22.2438**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.2770, 31.6137, 22.2438.



This preview shows how white text looks on a background with the XYZ color 49.2770, 31.6137,



# 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

49.2770, 31.6137, 22.2438

### Protanopia

30.4436, 31.7264, 33.3734

### Deuteranopia

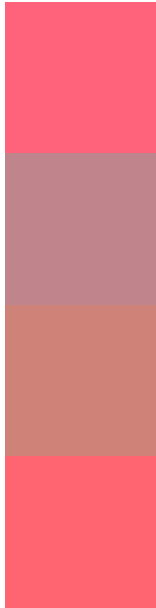
32.4085, 31.8317, 20.9590



## Tritanopia

48.3312, 31.6563, 17.7503

# Trichromacy



## Original Color

49.2770, 31.6137, 22.2438

## Protanomaly

34.8594, 29.8750, 28.7401

## Deuteranomaly

37.0445, 30.5626, 21.3995

## Tritanomaly

48.5074, 31.5704, 19.1599

# Monochromacy



## Original Color

49.2770, 31.6137, 22.2438

## Achromatopsia

28.1479, 29.6138, 32.2495

## Achromatomaly

33.1363, 28.3941, 28.1602

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.2770, 31.6137, 22.2438 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, 99, 123)` looks like.

```
.text, #text, p{  
    color:rgb(255, 99, 123)  
}
```

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, 99, 123) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 99, 123) }
```

## Border

The CSS property to change the border of an element to XYZ 49.2770, 31.6137, 22.2438 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, 99, 123) }
```



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

```
.border{ border-color:rgb(255, 99, 123) }
```

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

Here you see how a box with a 4 pixel rgb(255, 99, 123) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 99, 123); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 99, 123);  
box-shadow:4px 4px 4px 4px rgb(255, 99,  
123) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.2770, 31.6137, 22.2438 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 99, 123) }
```

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

```
.background{ background-color: rgb(255, 99,  
123) }
```

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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