

# Converting Colors

XYZ(53.3299, 34.4424, 22.6601)

Have a look what the booklet for  
XYZ(53.3299, 34.4424, 22.6601)  
contains.

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# Color

**XYZ(49.7655, 32.5907,  
22.4066)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF687B
RGB	255, 104, 123
RGB Percent	100%, 41%, 48%
CMY	0.0000, 0.5921, 0.5176
CMYK	0.00, 0.59, 0.52, 0.00
HSL	352°, 100%, 70%
HSV	352°, 59%, 100%
XYZ	49.7655, 32.5907, 22.4066
YIQ	151.3150, 83.8970, 37.9210

# Conversions

## Conversions Part 2

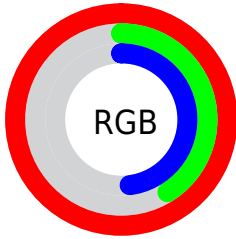
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 104, 123
Decimal	16738427
CIE Lab	63.83, 58.91, 19.56
CIE LCh	64, 62.070, 18.365
Yxy	32.5907, 0.4750, 0.3111
Android (android.graphics.Color)	4294928507 (0xFFFF687B)
YUV	151.3150, -13.9593, 90.9317
Hunter-Lab	57.0883, 55.6992, 16.6910

# Details

The XYZ color **49.7655, 32.5907, 22.4066** is a light color, and the websafe version is hex **FF6666**. A complement of this color would be **56.6114, 80.5200, 91.9211**, and the grayscale version is **29.5844, 31.1251, 33.8953**.

A 20% lighter version of the original color is **61.5487, 49.4968, 46.8673**, and **24.2007, 13.7222, 8.0297** is the 20% darker color. If you saturate the color by 10%, you get **46.3353, 27.7152, 15.1445**, and if you desaturate by 10%, it is **54.2909, 39.1483, 31.6018**.

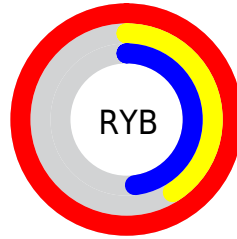
# Distribution



Red (100%)

Green (41%)

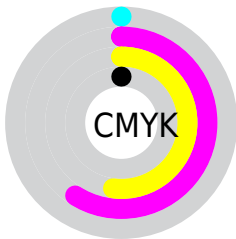
Blue (48%)



Red (100%)

Yellow (41%)

Blue (48%)

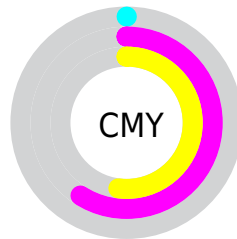


Cyan (0%)

Magenta (59%)

Yellow (52%)

Black (0%)



Cyan (0%)

Magenta (59%)


Yellow (52%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.7655, 32.5907, 22.4066 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 49.7655, 32.5907, 22.4066 by changing the saturation by 10% instead.




 49.7655, 32.5907,  
22.4066


 49.7655, 32.5907,  
22.4066

376.2154,  
313.8014, 277.6848

 35.4441, 21.8131,  
13.9548

 89.0212, 63.7360,  
48.3279


 24.1733, 13.7196,  
7.9508


 114.6863, 84.8724,  
66.6344

 15.5877, 7.9259,  
3.9762


 144.8634,  
110.2306, 89.0630

 9.3218, 4.0476,  
1.6123

 179.9177,  
140.1949, 116.0321

 5.0105, 1.7002,  
0.2996

220.2147,  
175.1498, 147.9603

 2.2882, 0.4238,  
0.0000

266.1198,

 0.7886, 0.0000,

215.4795, 185.2661

0.0000

317.9982,  
261.5686, 228.3681

0.0000, 0.0000,  
0.0000

49.7655, 32.5907,  
22.4066

49.7655, 32.5907,  
22.4066

46.3353, 27.7152,  
15.1445

54.2909, 39.1483,  
31.6018

43.9035, 24.3630,  
9.6747

59.9921, 47.5174,  
42.8537

42.3604, 22.3541,  
5.8393

66.9451, 57.8207,  
56.2777

41.5480, 21.4181,  
3.4449

75.2186, 70.1690,  
71.9801

41.5016, 21.3646,  
3.3082

84.8764, 84.6643,  
90.0599

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.



50.4675, 32.5907, 46.0751



49.7655, 32.5907, 22.4066



43.5020, 32.5907, 10.3390

# Triad

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



49.7655, 32.5907, 22.4066



20.0607, 32.5907, 12.1915



27.7173, 32.5907, 106.3379

# Complementary

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



49.7655, 32.5907, 22.4066



56.6114, 80.5200, 91.9211

# 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.



21.1206, 32.5907, 84.8214



49.7655, 32.5907, 22.4066



17.2875, 32.5907, 26.6575

# Square

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



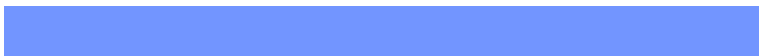
49.7655, 32.5907, 22.4066



25.9892, 32.5907, 6.6409



17.6351, 32.5907, 52.8636



36.5642, 32.5907, 103.3343



# Rectangle

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



49.7655, 32.5907, 22.4066



37.5772, 32.5907, 6.9521



17.6351, 32.5907, 52.8636



25.1979, 32.5907, 101.4358

# Sweetspot

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



49.7663, 32.5925, 22.4072



76.3145, 71.8098, 74.0432



57.2184, 34.7621, 98.3015



15.7787, 14.5385, 14.8008



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.



49.7663, 32.5925, 22.4072



45.8302, 27.0088, 14.0393



56.2013, 47.1841, 19.2444



18.1023, 18.0242, 19.1560



21.7142, 11.1750, 1.8797



2.1421, 1.0992, 0.3295



# Inverse Universe

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



49.7663, 32.5925, 22.4072



45.8302, 27.0088, 14.0393



44.3301, 51.3039, 102.1737



18.1023, 18.0242, 19.1560



21.7142, 11.1750, 1.8797



2.1421, 1.0992, 0.3295



# Previews

## White Background



This preview shows how the XYZ color 49.7655, 32.5907, 22.4066 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 49.7655, 32.5907, 22.4066 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 49.7655, 32.5907, 22.4066**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.7655, 32.5907, 22.4066.



This preview shows how white text looks on a background with the XYZ color 49.7655, 32.5907,



# 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

49.7655, 32.5907, 22.4066

### Protanopia

31.1990, 32.6202, 32.6689

### Deuteranopia

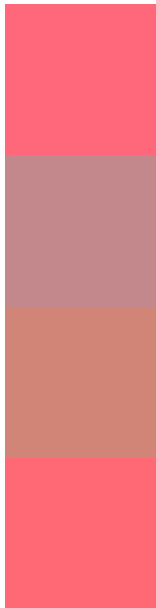
33.4283, 32.8231, 21.0966



## Tritanopia

49.0077, 32.5712, 19.3267

# Trichromacy



## Original Color

49.7655, 32.5907, 22.4066

## Protanomaly

35.7125, 30.9417, 28.5162

## Deuteranomaly

38.0118, 31.6623, 21.5608

## Tritanomaly

49.1355, 32.4583, 20.5050

# Monochromacy



## Original Color

49.7655, 32.5907, 22.4066

## Achromatopsia

29.4150, 30.9469, 33.7012

## Achromatomaly

34.3191, 29.7921, 29.1409

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.7655, 32.5907, 22.4066 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, 104, 123)` looks like.

```
.text, #text, p{  
    color:rgb(255, 104, 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, 104, 123) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 104, 123) }
```

## Border

The CSS property to change the border of an element to XYZ 49.7655, 32.5907, 22.4066 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, 104, 123) }
```



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

```
.border{ border-color:rgb(255, 104, 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, 104, 123)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 104, 123); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 104, 123);  
box-shadow:4px 4px 4px 4px rgb(255, 104,  
123) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.7655, 32.5907, 22.4066 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 104, 123) }
```

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

```
.background{ background-color: rgb(255,  
104, 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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