

# Converting Colors

XYZ(33.8167, 22.1690, 20.4727)

Have a look what the booklet for  
XYZ(33.8167, 22.1690, 20.4727)  
contains.

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# Color

**XYZ(33.8049, 22.2088,  
20.5942)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D35879
RGB	211, 88, 121
RGB Percent	83%, 35%, 47%
CMY	0.1725, 0.6549, 0.5255
CMYK	0.00, 0.58, 0.43, 0.17
HSL	344°, 58%, 59%
HSV	344°, 58%, 83%
XYZ	33.8049, 22.2088, 20.5942
YIQ	128.5390, 62.7150, 36.3390

# Conversions

## Conversions Part 2

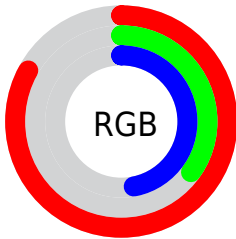
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	211, 88, 121
Decimal	13850745
CIE <sub>Lab</sub>	54.25, 51.46, 6.31
CIE <sub>LCh</sub>	54, 51.849, 6.993
Yxy	22.2088, 0.4413, 0.2899
Android (android.graphics.Color)	4292040825 (0xFFD35879)
YUV	128.5390, -3.7167, 72.3183
Hunter-Lab	47.1262, 45.5720, 7.0786

# Details

The XYZ color **33.8049, 22.2088, 20.5942** is a dark color, and the websafe version is hex **CC3366**. The color can be described as middle muted rose. A complement of this color would be **35.3559, 51.8782, 50.2728**, and the grayscale version is **20.7033, 21.7814, 23.7200**.

A 20% lighter version of the original color is **58.4558, 43.6231, 44.8743**, and **14.6415, 8.1364, 7.1021** is the 20% darker color. If you saturate the color by 10%, you get **31.4443, 18.8836, 15.5039**, and if you desaturate by 10%, it is **36.8193, 26.5991, 26.6506**.

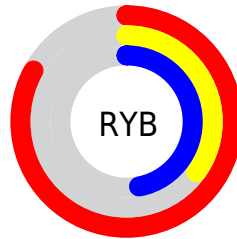
# Distribution



Red (83%)

Green (35%)

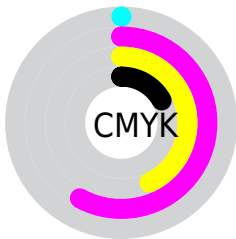
Blue (47%)



Red (83%)

Yellow (35%)

Blue (47%)

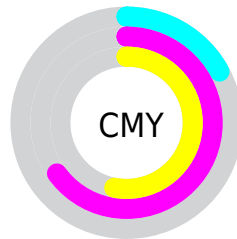


Cyan (0%)

Magenta (58%)

Yellow (43%)

Black (17%)



Cyan (17%)

Magenta (65%)


Yellow (53%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.8049, 22.2088, 20.5942 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 33.8049, 22.2088, 20.5942 by changing the saturation by 10% instead.




 33.8049, 22.2088,  
20.5942


 33.8049, 22.2088,  
20.5942


310.8625,  
263.6347, 267.8238


 22.9059, 14.0104,  
12.6394


 64.9765, 47.0909,  
45.2832


 14.6444, 8.1279,  
7.0529


 85.9798, 64.5433,  
62.8544

 8.6549, 4.1769,  
3.4162


 111.0819, 85.8492,  
84.4681

 4.5721, 1.7730,  
1.3109

 140.6482,  
111.3930, 110.5429

 2.0306, 0.4703,  
0.0707

175.0441,  
141.5591, 141.4974

 0.6511, 0.0000,  
0.0000

214.6349,

 0.0000, 0.0000,

176.7318, 177.7500

0.0000

259.7859,  
217.2955, 219.7193

■ 33.8049, 22.2088,  
20.5942

■ 33.8049, 22.2088,  
20.5942

■ 31.4443, 18.8836,  
15.5039

■ 36.8193, 26.5991,  
26.6506

■ 29.6841, 16.5281,  
11.3256

■ 40.5318, 32.1324,  
33.7203

■ 28.4645, 15.0353,  
8.0014

■ 44.9847, 38.8829,  
41.8487

■ 27.6988, 14.2455,  
5.4604

■ 50.2163, 46.9180,  
51.0782

■ 27.5926, 14.1403,  
5.0941

■ 56.2623, 56.2998,  
61.4485

■ 63.1560, 67.0865,  
72.9975

■ 70.9290, 79.3328,  
85.7611

■ 79.0320, 91.9321,  
99.5809

■ 80.6740, 92.5889,  
108.2272

# Harmonies

## Analogous

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



32.7459, 22.2088, 38.4637



33.8049, 22.2088, 20.5942



31.0084, 22.2088, 9.8950

# Triad

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



33.8049, 22.2088, 20.5942



15.2331, 22.2088, 6.8916



17.1479, 22.2088, 65.5105

# Complementary

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



33.8049, 22.2088, 20.5942



35.3559, 51.8782, 50.2728

# 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.



13.5783, 22.2088, 48.0954



33.8049, 22.2088, 20.5942



12.6181, 22.2088, 13.9613

# Square

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



33.8049, 22.2088, 20.5942



19.8159, 22.2088, 4.5994



12.0714, 22.2088, 28.1632



22.4567, 22.2088, 69.9592



# Rectangle

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



33.8049, 22.2088, 20.5942



27.5840, 22.2088, 6.3688



12.0714, 22.2088, 28.1632



15.7356, 22.2088, 60.6937

# Sweetspot

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



33.8055, 22.2100, 20.5946



78.0530, 73.5149, 80.0853



33.1870, 20.9316, 63.9190



16.3302, 15.1540, 16.4873



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.



33.8055, 22.2100, 20.5946



47.5214, 27.9630, 22.0890



34.7172, 26.7366, 12.5649



11.9371, 11.8596, 12.9447



16.6889, 8.5484, 3.2679



0.9666, 0.4913, 0.3588



# Inverse Universe

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



33.8055, 22.2100, 20.5946



47.5214, 27.9630, 22.0890



32.9966, 41.2054, 67.8423



11.9371, 11.8596, 12.9447



16.6889, 8.5484, 3.2679



0.9666, 0.4913, 0.3588



# Previews

## White Background



This preview shows how the XYZ color 33.8049, 22.2088, 20.5942 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

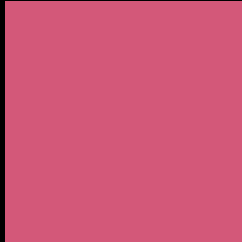
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 33.8049, 22.2088, 20.5942 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

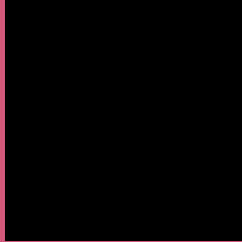
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 33.8049, 22.2088, 20.5942**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.8049, 22.2088, 20.5942.



This preview shows how white text looks on a background with the XYZ color 33.8049, 22.2088,



# 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

33.8049, 22.2088, 20.5942

### Protanopia

21.7864, 22.3033, 29.5423

### Deuteranopia

22.6409, 22.2009, 19.3116



## Tritanopia

32.3262, 22.0914, 14.1156

# Trichromacy



**Original Color**

33.8049, 22.2088, 20.5942

**Protanomaly**

24.5618, 21.0813, 26.0671

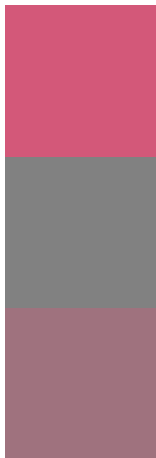
**Deuteranomaly**

25.7996, 21.5306, 19.6257

**Tritanomaly**

32.9209, 22.2244, 16.1903

# Monochromacy



**Original Color**

33.8049, 22.2088, 20.5942

**Achromatopsia**

20.8660, 21.9526, 23.9064

**Achromatomaly**

24.0813, 20.9119, 22.5058

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.8049, 22.2088, 20.5942 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(211, 88, 121)` looks like.

```
.text, #text, p{  
    color:rgb(211, 88, 121)  
}
```

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(211, 88, 121) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(211, 88, 121) }
```

## Border

The CSS property to change the border of an element to XYZ 33.8049, 22.2088, 20.5942 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(211, 88, 121) }
```



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

```
.border{ border-color:rgb(211, 88, 121) }
```

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

Here you see how a box with a 4 pixel `rgb(211, 88, 121)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(211, 88, 121); -webkit-box-  
shadow:4px 4px 4px 4px rgb(211, 88, 121);  
box-shadow:4px 4px 4px 4px rgb(211, 88,  
121) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.8049, 22.2088, 20.5942 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(211, 88, 121) }
```

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

```
.background{ background-color: rgb(211, 88,  
121) }
```

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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