

# Converting Colors

XYZ(50.7953, 36.9938, 72.7533)

Have a look what the booklet for  
XYZ(50.7953, 36.9938, 72.7533)  
contains.

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# Color

**XYZ(50.8176, 36.9386,  
72.8581)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DC84DD
RGB	220, 132, 221
RGB Percent	86%, 52%, 87%
CMY	0.1372, 0.4823, 0.1333
CMYK	0.00, 0.40, 0.00, 0.13
HSL	299°, 57%, 69%
HSV	299°, 40%, 87%
XYZ	50.8176, 36.9386, 72.8581
YIQ	168.4580, 23.8790, 46.3350

# Conversions

## Conversions Part 2

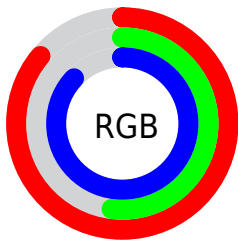
Format	Color
R <sub>Y</sub> B	220, 132, 221
Decimal	14451933
CIE Lab	67.23, 47.06, -31.43
CIE LCh	67, 56.592, 326.263
Yxy	36.9386, 0.3164, 0.2300
Android (android.graphics.Color)	4292642013 (0xFFDC84DD)
YUV	168.4580, 25.9032, 45.2023
Hunter-Lab	60.7771, 42.8893, -28.5314

# Details

The XYZ color **50.8176, 36.9386, 72.8581** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **39.6954, 58.3663, 31.0052**, and the grayscale version is **37.3140, 39.2572, 42.7511**.

A 20% lighter version of the original color is **77.0603, 64.0206, 102.9034**, and **24.7832, 16.1317, 37.8839** is the 20% darker color. If you saturate the color by 10%, you get **48.0575, 31.5290, 71.9599**, and if you desaturate by 10%, it is **54.2150, 43.6210, 73.9694**.

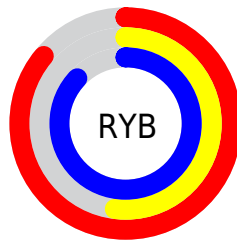
# Distribution



Red (86%)

Green (52%)

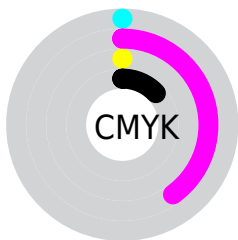
Blue (87%)



Red (86%)

Yellow (52%)

Blue (87%)

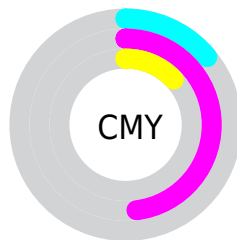


Cyan (0%)

Magenta (40%)

Yellow (0%)

Black (13%)



Cyan (14%)

Magenta (48%)


Yellow (13%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 50.8176, 36.9386, 72.8581 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 50.8176, 36.9386, 72.8581 by changing the saturation by 10% instead.




 50.8176, 36.9386,  
72.8581


 50.8176, 36.9386,  
72.8581

380.2541,  
333.0446, 489.5804


 36.2839, 25.1600,  
53.3688


 90.5697, 70.4783,  
124.9948

 24.8247, 16.1963,  
37.7075


 116.5188, 93.0082,  
158.4793

 16.0745, 9.6631,  
25.4557

 147.0038,  
119.8907, 197.4659

 9.6681, 5.1762,  
16.1948

182.3900,  
151.5100, 242.3733

 5.2400, 2.3510,  
9.5063

223.0428,  
188.2507, 293.6199

 2.4250, 0.8005,  
4.9715

269.3275,

 0.8576, 0.0000,

230.4971, 351.6242

2.1721

321.6094,  
278.6336, 416.8049

■ 0.0000, 0.0000,  
0.6582

■ 0.0000, 0.0000,  
0.0000

■ 50.8176, 36.9386,  
72.8581

■ 50.8176, 36.9386,  
72.8581

■ 48.0575, 31.5290,  
71.9599

■ 54.2150, 43.6210,  
73.9694

■ 45.8906, 27.3065,  
71.2591


■ 58.2829, 51.6451,  
75.3038


■ 44.2731, 24.1825,  
70.7414


■ 63.0566, 61.0806,  
76.8734


■ 43.1534, 22.0540,  
70.3896


■ 68.5679, 71.9911,  
78.6889


 42.4703, 20.7985,  
70.1832


 74.8466, 84.4362,  
80.7601

 42.1202, 20.2061,  
70.0873

 78.7796, 92.1897,  
82.0494

 78.8554, 92.2288,  
82.0530

 78.9314, 92.2680,  
82.0565

 79.0074, 92.3072,  
82.0601

# Harmonies

## Analogous

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



42.9860, 36.9386, 99.7621



50.8176, 36.9386, 72.8581



54.4353, 36.9386, 43.4019

# Triad

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



50.8176, 36.9386, 72.8581



36.2032, 36.9386, 8.9718



22.2176, 36.9386, 65.1630

# Complementary

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



50.8176, 36.9386, 72.8581



39.6954, 58.3663, 31.0052

# 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.



21.0023, 36.9386, 37.1973



50.8176, 36.9386, 72.8581



28.2584, 36.9386, 10.8600

# Square

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



50.8176, 36.9386, 72.8581



45.1688, 36.9386, 12.2080



23.0254, 36.9386, 19.1581



26.6662, 36.9386, 94.1859



# Rectangle

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



50.8176, 36.9386, 72.8581



53.5964, 36.9386, 28.3119



23.0254, 36.9386, 19.1581



21.4524, 36.9386, 55.0711

# Sweetspot

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



50.8188, 36.9402, 72.8589



85.9270, 81.9415, 105.8952



31.0223, 27.0355, 71.9905



18.1988, 17.1569, 22.6024



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.



50.8188, 36.9402, 72.8589



67.1190, 44.8860, 99.7340



46.1054, 35.0899, 46.4552



13.5992, 13.2670, 16.4962



24.4750, 11.7415, 40.7148



1.5904, 0.7631, 2.6379



# Inverse Universe

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



42.3049, 33.5697, 26.4417



53.8742, 39.6462, 27.3579



43.1129, 59.7151, 49.8214



13.0620, 13.0539, 13.5876



17.3328, 8.9342, 0.8668



1.1250, 0.5797, 0.0674



# Previews

## White Background



This preview shows how the XYZ color 50.8176, 36.9386, 72.8581 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

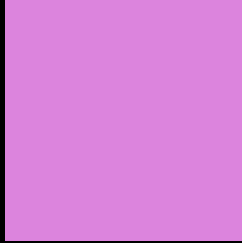
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 50.8176, 36.9386, 72.8581 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

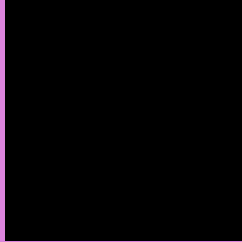
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 50.8176, 36.9386, 72.8581

## Background



This preview shows how black text looks on a background with the XYZ color 50.8176, 36.9386, 72.8581.



This preview shows how white text looks on a background with the XYZ color 50.8176, 36.9386,



# 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

50.8176, 36.9386, 72.8581

### Protanopia

39.2273, 37.2556, 90.7115

### Deuteranopia

38.0884, 37.1230, 70.1237



## Tritanopia

43.5161, 36.9891, 36.7444

# Trichromacy



## Original Color

50.8176, 36.9386, 72.8581



## Protanomaly

41.9830, 36.0843, 84.1091



## Deuteranomaly

41.6927, 36.2218, 71.1237



## Tritanomaly

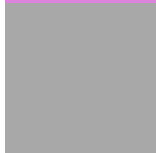
45.7874, 36.7921, 47.8683

# Monochromacy



## Original Color

50.8176, 36.9386, 72.8581



## Achromatopsia

37.2190, 39.1572, 42.6422



## Achromatomaly

41.1845, 37.5953, 52.0997

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 50.8176, 36.9386, 72.8581 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(220, 132, 221)` looks like.

```
.text, #text, p{  
    color:rgb(220, 132, 221)  
}
```

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(220, 132, 221) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(220, 132, 221) }
```

## Border

The CSS property to change the border of an element to XYZ 50.8176, 36.9386, 72.8581 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(220, 132, 221) }
```



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

```
.border{ border-color:rgb(220, 132, 221) }
```

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

Here you see how a box with a 4 pixel `rgb(220, 132, 221)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(220, 132, 221); -webkit-box-  
shadow:4px 4px 4px 4px rgb(220, 132, 221);  
box-shadow:4px 4px 4px 4px rgb(220, 132,  
221) }
```

# Background

The CSS property to change the background color of an element to XYZ 50.8176, 36.9386, 72.8581 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(220, 132, 221) }
```

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

```
.background{ background-color: rgb(220,  
132, 221) }
```

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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