

# Converting Colors

XYZ(39.8233, 21.8190, 62.8317)

Have a look what the booklet for  
XYZ(39.8233, 21.8190, 62.8317)  
contains.

<b>XYZ(39.9887, 21.9098, 63.0941)</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(39.9887, 21.9098,  
63.0941)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D23FD2
RGB	210, 63, 210
RGB Percent	82%, 25%, 82%
CMY	0.1765, 0.7529, 0.1765
CMYK	0.00, 0.70, 0.00, 0.18
HSL	300°, 62%, 54%
HSV	300°, 70%, 82%
XYZ	39.9887, 21.9098, 63.0941
YIQ	123.7110, 40.4250, 76.8810

# Conversions

## Conversions Part 2

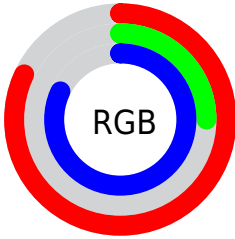
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	210, 63, 210
Decimal	13778898
CIE Lab	53.93, 73.23, -46.17
CIE LCh	54, 86.570, 327.771
Yxy	21.9098, 0.3199, 0.1753
Android (android.graphics.Color)	4291968978 (0xFFD23FD2)
YUV	123.7110, 42.5405, 75.6755
Hunter-Lab	46.8079, 70.5814, -47.1536

# Details

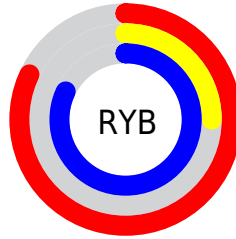
The XYZ color **39.9887, 21.9098, 63.0941** is a light color, and the websafe version is hex **CC33CC**. The color can be described as light muted magenta. A complement of this color would be **25.9947, 47.5098, 12.5041**, and the grayscale version is **18.9172, 19.9023, 21.6737**.

A 20% lighter version of the original color is **66.3730, 42.6459, 99.3410**, and **18.8653, 9.0420, 31.7613** is the 20% darker color. If you saturate the color by 10%, you get **39.0398, 20.0114, 62.7779**, and if you desaturate by 10%, it is **41.3825, 24.6968, 63.5590**.

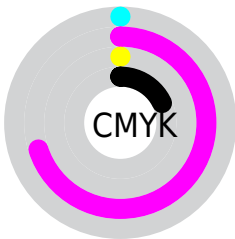
# Distribution



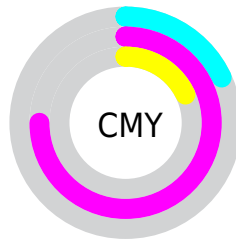
- Red (82%)
- Green (25%)
- Blue (82%)



- Red (82%)
- Yellow (25%)
- Blue (82%)



- Cyan (0%)
- Magenta (70%)
- Yellow (0%)
- Black (18%)




- Cyan (18%)
- Magenta (75%)
- Yellow (18%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 39.9887, 21.9098, 63.0941 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 39.9887, 21.9098, 63.0941 by changing the saturation by 10% instead.




 39.9887, 21.9098,  
63.0941


 39.9887, 21.9098,  
63.0941


337.2112,  
262.0749, 454.0283


 27.7139, 13.7906,  
45.4759


 74.4308, 46.5969,  
110.8921


 18.2495, 7.9752,  
31.4867


 97.3287, 63.9336,  
141.9090


 11.2300, 4.0791,  
20.7082


 124.4985, 85.1116,  
178.2292

 6.2902, 1.7179,  
12.7217

 156.3053,  
110.5153, 220.2712

 3.0647, 0.4352,  
7.1087

 193.1147,  
140.5290, 268.4535

 1.1880, 0.0000,  
3.4507

235.2919,

 0.0969, 0.0000,

175.5373, 323.1948

1.3291

283.2023,  
215.9244, 384.9135

■ 0.0000, 0.0000,  
0.0855

■ 0.0000, 0.0000,  
0.0000

■ 39.9887, 21.9098,  
63.0941

■ 39.9887, 21.9098,  
63.0941

■ 39.0398, 20.0114,  
62.7779

■ 41.3825, 24.6968,  
63.5590

■ 38.4799, 18.8916,  
62.5912


■ 43.2640, 28.4597,  
64.1862


■ 38.2117, 18.3551,  
62.5017


■ 45.6735, 33.2787,  
64.9895


■ 38.2116, 18.3550,  
62.5016


■ 48.6466, 39.2248,  
65.9806

 52.2158, 46.3632,  
67.1704

 56.4110, 54.7536,  
68.5689

 61.2603, 64.4522,  
70.1854

 66.7900, 75.5115,  
72.0287

 73.0248, 87.9811,  
74.1071

# Harmonies

## Analogous

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



30.3533, 21.9098, 104.3264



39.9887, 21.9098, 63.0941



44.3912, 21.9098, 25.9113

# Triad

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



39.9887, 21.9098, 63.0941



21.5304, 21.9098, 0.4530



8.6413, 21.9098, 56.7015

# Complementary

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



39.9887, 21.9098, 63.0941



25.9947, 47.5098, 12.5041

# 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.



7.5487, 21.9098, 21.9124



39.9887, 21.9098, 63.0941



13.5334, 21.9098, 1.1572

# Square

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



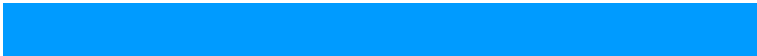
39.9887, 21.9098, 63.0941



31.9341, 21.9098, 1.4439



9.0355, 21.9098, 5.6056



12.6465, 21.9098, 99.0716



# Rectangle

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



39.9887, 21.9098, 63.0941



43.0102, 21.9098, 11.3584



9.0355, 21.9098, 5.6056



7.9852, 21.9098, 43.2274

# Sweetspot

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



39.9895, 21.9108, 63.0945



80.2816, 70.4634, 103.9769



15.4613, 9.2660, 61.9473



16.8392, 14.3934, 22.1405



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.



39.9895, 21.9108, 63.0945



60.0758, 30.0520, 97.2408



32.8365, 19.0496, 25.4271



12.3109, 12.0091, 14.9128



23.3082, 11.1961, 38.1245



1.3032, 0.6260, 2.1317



# Inverse Universe

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



39.9895, 21.9108, 63.0945



60.0758, 30.0520, 97.2408



29.5772, 48.9428, 31.3689



12.3109, 12.0091, 14.9128



23.3082, 11.1961, 38.1245

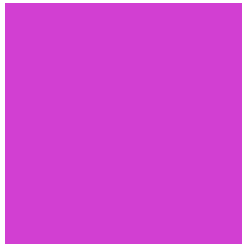


1.3032, 0.6260, 2.1317



# Previews

## White Background



This preview shows how the XYZ color 39.9887, 21.9098, 63.0941 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

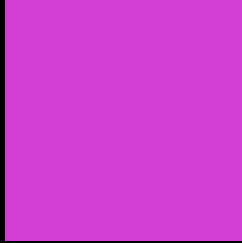
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 39.9887, 21.9098, 63.0941 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

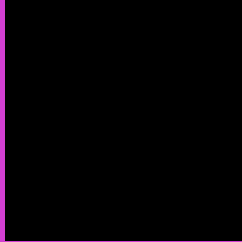
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 39.9887, 21.9098, 63.0941**

## **Background**



This preview shows how black text looks on a background with the XYZ color 39.9887, 21.9098, 63.0941.



This preview shows how white text looks on a background with the XYZ color 39.9887, 21.9098,



# 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

39.9887, 21.9098, 63.0941

### Protanopia

26.5103, 22.4681, 97.5473

### Deuteranopia

22.7898, 22.1978, 57.7270



## Tritanopia

30.2062, 21.7611, 15.9729

# Trichromacy



## Original Color

39.9887, 21.9098, 63.0941



## Protanomaly

26.2752, 18.7989, 83.9051



## Deuteranomaly

26.1040, 19.6970, 59.5528



## Tritanomaly

32.5635, 21.0367, 28.3308

# Monochromacy



## Original Color

39.9887, 21.9098, 63.0941



## Achromatopsia

19.1579, 20.1556, 21.9495



## Achromatomaly

24.1853, 18.8379, 33.3717

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 39.9887, 21.9098, 63.0941 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(210, 63, 210)` looks like.

```
.text, #text, p{  
    color:rgb(210, 63, 210)  
}
```

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(210, 63, 210) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(210, 63, 210) }
```

## Border

The CSS property to change the border of an element to XYZ 39.9887, 21.9098, 63.0941 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(210, 63, 210) }
```



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

```
.border{ border-color:rgb(210, 63, 210) }
```

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

Here you see how a box with a 4 pixel `rgb(210, 63, 210)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(210, 63, 210); -webkit-box-  
shadow:4px 4px 4px 4px rgb(210, 63, 210);  
box-shadow:4px 4px 4px 4px rgb(210, 63,  
210) }
```

# Background

The CSS property to change the background color of an element to XYZ 39.9887, 21.9098, 63.0941 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(210, 63, 210) }
```

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

```
.background{ background-color: rgb(210, 63,  
210) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor