

# Converting Colors

XYZ(37.6830, 19.8037, 89.8741)

Have a look what the booklet for  
XYZ(37.6830, 19.8037, 89.8741)  
contains.

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# Color

**XYZ(37.6439, 19.7884,  
89.8312)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B63BF7
RGB	182, 59, 247
RGB Percent	71%, 23%, 97%
CMY	0.2863, 0.7686, 0.0314
CMYK	0.26, 0.76, 0.00, 0.03
HSL	279°, 92%, 60%
HSV	279°, 76%, 97%
XYZ	37.6439, 19.7884, 89.8312
YIQ	117.2090, 12.9600, 84.5440

# Conversions

## Conversions Part 2

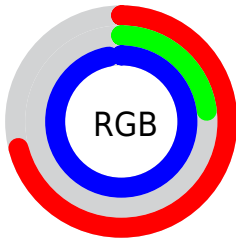
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	182, 59, 247
Decimal	11942903
CIE Lab	51.60, 75.82, -71.03
CIE LCh	52, 103.897, 316.868
Yxy	19.7884, 0.2556, 0.1344
Android (android.graphics.Color)	4290132983 (0xFFB63BF7)
YUV	117.2090, 63.9870, 56.8217
Hunter-Lab	44.4842, 73.2051, -88.5912

# Details

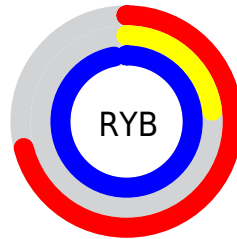
The XYZ color **37.6439, 19.7884, 89.8312** is a light color, and the websafe version is hex **CC33FF**. The color can be described as light washed purple. A complement of this color would be **42.3626, 71.1227, 15.6334**, and the grayscale version is **16.7793, 17.6532, 19.2243**.

A 20% lighter version of the original color is **61.2648, 39.2909, 98.9626**, and **17.3537, 7.8851, 48.7514** is the 20% darker color. If you saturate the color by 10%, you get **34.7056, 16.8141, 89.4123**, and if you desaturate by 10%, it is **41.3070, 24.0272, 90.4567**.

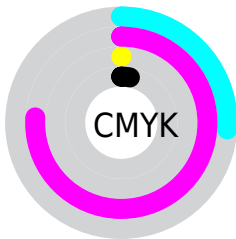
# Distribution



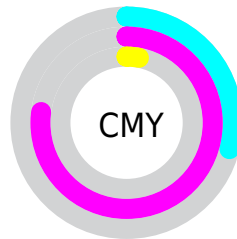
- Red (71%)
- Green (23%)
- Blue (97%)



- Red (71%)
- Yellow (23%)
- Blue (97%)



- Cyan (26%)
- Magenta (76%)
- Yellow (0%)
- Black (3%)




- Cyan (29%)
- Magenta (77%)
- Yellow (3%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.6439, 19.7884, 89.8312 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 37.6439, 19.7884, 89.8312 by changing the saturation by 10% instead.



 37.6439, 19.7884,  
89.8312


 37.6439, 19.7884,  
89.8312


327.3973,  
250.7673, 548.0375


 25.8824, 12.2413,  
67.2677


 70.8694, 43.0621,  
149.0374


 16.8679, 6.9083,  
48.8393


 93.0641, 59.5576,  
186.5171


 10.2351, 3.4048,  
34.1273


 119.4673, 79.8046,  
229.8061

 5.6185, 1.3465,  
22.7133

 150.4443,  
104.1876, 279.3228

 2.6530, 0.1768,  
14.1786

 186.3604,  
133.0910, 335.4857

 0.9730, 0.0000,  
8.1048

227.5810,

 0.0000, 0.0000,

166.8991, 398.7135

4.0734

274.4715,  
205.9964, 469.4246

■ 0.0000, 0.0000,  
1.6657

■ 0.0000, 0.0000,  
0.3371

■ 37.6439, 19.7884,  
89.8312

■ 37.6439, 19.7884,  
89.8312

■ 34.7056, 16.8141,  
89.4123

■ 41.3070, 24.0272,  
90.4567

■ 32.3940, 14.9151,  
89.1676

■ 45.7688, 29.6791,  
91.3125

■ 31.6085, 14.3554,  
89.1010

■ 51.0965, 36.8739,  
92.4204

■ 57.3486, 45.7256,  
93.7994

64.5781, 56.3374,  
95.4667

72.8337, 68.8038,  
97.4378

82.1607, 83.2126,  
99.7274

92.0879, 98.6187,  
102.1778

93.7886, 99.4954,  
102.2574

# Harmonies

## Analogous

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



25.2712, 19.7884, 137.1111



37.6439, 19.7884, 89.8312



45.9941, 19.7884, 37.4690

# Triad

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



37.6439, 19.7884, 89.8312



23.7600, 19.7884, 0.0000



5.3768, 19.7884, 42.9638

# Complementary

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



37.6439, 19.7884, 89.8312



42.3626, 71.1227, 15.6334

# 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.



5.2309, 19.7884, 10.9268



37.6439, 19.7884, 89.8312



13.5534, 19.7884, 0.0000

# Square

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



37.6439, 19.7884, 89.8312



36.1903, 19.7884, 0.9186



7.6146, 19.7884, 1.2832



8.1334, 19.7884, 96.8878



# Rectangle

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



37.6439, 19.7884, 89.8312



46.6906, 19.7884, 15.3644



7.6146, 19.7884, 1.2832



5.0698, 19.7884, 29.1970

# Sweetspot

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



37.6449, 19.7891, 89.8317



72.0384, 64.4729, 103.2554



25.9009, 22.2625, 90.9280



14.7642, 12.8206, 21.9464



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.



37.6449, 19.7891, 89.8317



35.9836, 16.9185, 95.9768



52.6820, 28.0064, 69.5096



16.6250, 16.4648, 20.8444



16.8754, 7.6739, 47.1298



1.5935, 0.7313, 4.1474



# Inverse Universe

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



43.5601, 24.3577, 21.4744



44.0025, 22.8537, 14.9708



36.7933, 68.1432, 20.2740



16.7356, 16.5771, 18.3544



21.2218, 10.8322, 5.8764



1.9117, 0.9706, 0.7614



# Previews

## White Background



This preview shows how the XYZ color 37.6439, 19.7884, 89.8312 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

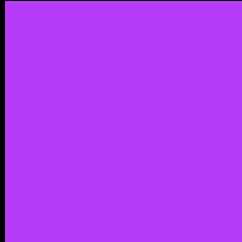
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.6439, 19.7884, 89.8312 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

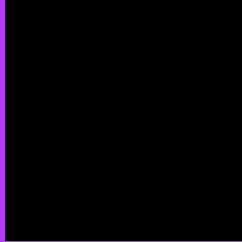
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 37.6439, 19.7884, 89.8312**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.6439, 19.7884, 89.8312.



This preview shows how white text looks on a background with the XYZ color 37.6439, 19.7884,



# 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

37.6439, 19.7884, 89.8312

### Protanopia

24.0094, 20.1587, 93.8924

### Deuteranopia

20.3791, 20.0890, 70.5136



## Tritanopia

23.2714, 19.5865, 19.3837

# Trichromacy



## Original Color

37.6439, 19.7884, 89.8312



## Protanomaly

23.7768, 16.6098, 92.3953



## Deuteranomaly

21.2811, 16.3742, 76.9018



## Tritanomaly

26.7192, 18.4277, 37.2706

# Monochromacy



## Original Color

37.6439, 19.7884, 89.8312



## Achromatopsia

16.9083, 17.7888, 19.3720



## Achromatomaly

21.8682, 16.7088, 37.1945

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.6439, 19.7884, 89.8312 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(182, 59, 247)` looks like.

```
.text, #text, p{  
    color:rgb(182, 59, 247)  
}
```

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(182, 59, 247) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(182, 59, 247) }
```

## Border

The CSS property to change the border of an element to XYZ 37.6439, 19.7884, 89.8312 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(182, 59, 247) }
```



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

```
.border{ border-color:rgb(182, 59, 247) }
```

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

Here you see how a box with a 4 pixel `rgb(182, 59, 247)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(182, 59, 247); -webkit-box-  
shadow:4px 4px 4px 4px rgb(182, 59, 247);  
box-shadow:4px 4px 4px 4px rgb(182, 59,  
247) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.6439, 19.7884, 89.8312 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(182, 59, 247) }
```

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

```
.background{ background-color: rgb(182, 59,  
247) }
```

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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