

# Converting Colors

$Y_{xy}(10.2019, 0.1979, 0.0891)$

Have a look what the booklet for  
Yxy(10.2019, 0.1979, 0.0891)  
contains.

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**Color**

**Yxy(10.2188, 0.1981, 0.0892)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7311EE
RGB	115, 17, 238
RGB Percent	45%, 7%, 93%
CMY	0.5492, 0.9326, 0.0668
CMYK	0.52, 0.93, 0.00, 0.07
HSL	267°, 87%, 50%
HSV	267°, 93%, 93%
XYZ	22.6944, 10.2188, 81.6473
YIQ	71.4960, -12.5330, 89.5070

# Conversions

## Conversions Part 2

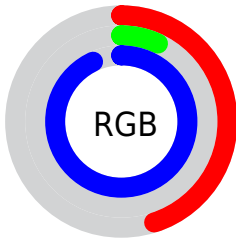
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	115, 17, 238
Decimal	7541230
CIE <sub>Lab</sub>	38.23, 76.43, -88.20
CIE <sub>LCh</sub>	38, 116.707, 310.912
Yxy	10.2188, 0.1981, 0.0892
Android (android.graphics.Color)	4285731310 (0xFF7311EE)
YUV	71.4960, 82.0865, 38.1530
Hunter-Lab	31.9669, 70.7817, -129.0572

# Details

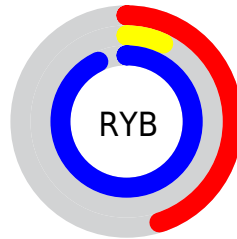
The Yxy color **10.2188, 0.1981, 0.0892** is a dark color, and the websafe version is hex **6633FF**. The color can be described as dark washed purple. A complement of this color would be **66.7704, 0.3474, 0.5586**, and the grayscale version is **6.2643, 0.3127, 0.3290**.

A 20% lighter version of the original color is **23.0256, 0.2480, 0.1443**, and **3.7464, 0.1619, 0.0666** is the 20% darker color. If you saturate the color by 10%, you get **9.1976, 0.1901, 0.0821**, and if you desaturate by 10%, it is **12.3606, 0.2106, 0.1035**.

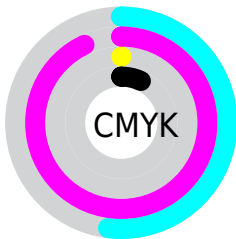
# Distribution



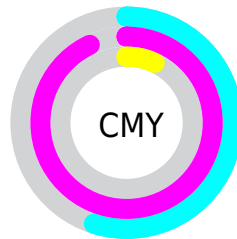
- Red (45%)
- Green (7%)
- Blue (93%)



- Red (45%)
- Yellow (7%)
- Blue (93%)



- Cyan (52%)
- Magenta (93%)
- Yellow (0%)
- Black (7%)




- Cyan (55%)
- Magenta (93%)
- Yellow (7%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 10.2188, 0.1981, 0.0892 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 Yxy color 10.2188, 0.1981, 0.0892 by changing the saturation by 10% instead.





 10.2188, 0.1981,  
0.0892


 10.2188, 0.1981,  
0.0892


192.2266, 0.2664,  
0.1979


 5.5443, 0.1798,  
0.0688


 26.2062, 0.2244,  
0.1242


 2.5700, 0.1567,  
0.0471


 38.2879, 0.2339,  
0.1388


 0.9116, 0.1275,  
0.0258

 53.6075, 0.2418,  
0.1517

 0.0000, 0.0925,  
0.0000

 72.5492, 0.2484,  
0.1631

 0.0000, 0.0503,  
0.0000

 95.4977, 0.2540,  
0.1733

 0.0000, 0.0000,  
0.0000

 122.8371, 0.2587,

0.1824

154.9519, 0.2628,  
0.1906

■ 10.2188, 0.1981,  
0.0892

■ 10.2188, 0.1981,  
0.0892

■ 9.1976, 0.1901,  
0.0821

■ 12.3606, 0.2106,  
0.1035

■ 15.6294, 0.2245,  
0.1237

■ 20.1860, 0.2390,  
0.1488

■ 26.1640, 0.2536,  
0.1774

■ 33.6794, 0.2675,  
0.2077

■ 42.8361, 0.2803,  
0.2384

■ 53.7285, 0.2918,  
0.2682

■ 66.4437, 0.3019,  
0.2963

■ 81.0629, 0.3105,  
0.3222

# Harmonies

## Analogous

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



10.2188, 0.0875, 0.0702



10.2188, 0.1981, 0.0892



10.2188, 0.4286, 0.1414

# Triad

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



10.2188, 0.1981, 0.0892



10.2188, 0.5994, 0.4006



10.2188, 0.0396, 0.3141

# Complementary

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



10.2188, 0.1981, 0.0892



66.7704, 0.3474, 0.5586

# 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.



10.2188, 0.1025, 0.7322



10.2188, 0.1981, 0.0892



10.2188, 0.4137, 0.5863

# Square

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



10.2188, 0.1981, 0.0892



10.2188, 0.7129, 0.2871



10.2188, 0.2247, 0.7753



10.2188, 0.0296, 0.1288



# Rectangle

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



10.2188, 0.1981, 0.0892



10.2188, 0.6126, 0.1913



10.2188, 0.2247, 0.7753



10.2188, 0.0525, 0.4397

# Sweetspot

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



10.2190, 0.1981, 0.0892



55.8147, 0.2859, 0.2525



25.7267, 0.1872, 0.1897



10.8133, 0.2807, 0.2394



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



10.2190, 0.1981, 0.0892



10.7248, 0.1898, 0.0819



22.3069, 0.3052, 0.1475



15.5712, 0.3049, 0.3051



5.2064, 0.1917, 0.0830



0.4912, 0.2064, 0.0910



# Inverse Universe

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



20.4791, 0.4600, 0.2343



23.2157, 0.4755, 0.2393



61.4822, 0.3021, 0.5940



15.9063, 0.3206, 0.3159



11.1064, 0.4717, 0.2372

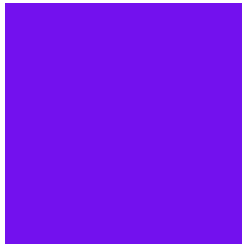


0.9439, 0.4463, 0.2232



# Previews

## White Background



This preview shows how the Yxy color 10.2188, 0.1981, 0.0892 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

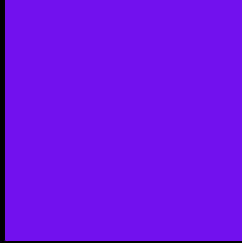
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 10.2188, 0.1981, 0.0892 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

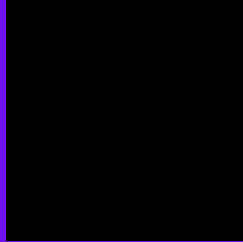
Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

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

**Yxy 10.2188, 0.1981, 0.0892**

## **Background**



This preview shows how black text looks on a background with the Yxy color 10.2188, 0.1981, 0.0892.



This preview shows how white text looks on a background with the Yxy color 10.2188, 0.1981, 0.0892.

# 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

10.2188, 0.1981, 0.0892

### Protanopia

10.2771, 0.1747, 0.1489

### Deuteranopia

10.2630, 0.1865, 0.1914



## Tritanopia

10.4008, 0.2746, 0.3113

# Trichromacy



**Original Color**

10.2188, 0.1981, 0.0892

**Protanomaly**

8.2971, 0.1699, 0.1039

**Deuteranomaly**

7.8180, 0.1751, 0.1169

**Tritanomaly**

8.2546, 0.2323, 0.1645

# Monochromacy



**Original Color**

10.2188, 0.1981, 0.0892

**Achromatopsia**

6.4803, 0.3127, 0.3290

**Achromatomaly**

6.1966, 0.2469, 0.1625

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 10.2188, 0.1981, 0.0892 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(115, 17, 238)` looks like.

```
.text, #text, p{  
    color:rgb(115, 17, 238)  
}
```

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(115, 17, 238) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(115, 17, 238) }
```

## Border

The CSS property to change the border of an element to Yxy 10.2188, 0.1981, 0.0892 is called "border". The border property can be set on classes, ids or directly on the HTML element.

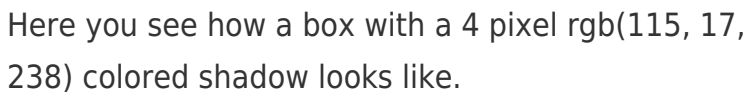
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(115, 17, 238) }
```

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

```
.border{ border-color:rgb(115, 17, 238) }
```

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



Here you see how a box with a 4 pixel `rgb(115, 17, 238)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(115, 17, 238); -webkit-box-shadow:4px 4px 4px 4px rgb(115, 17, 238); box-shadow:4px 4px 4px 4px rgb(115, 17, 238) }
```



# Background

The CSS property to change the background color of an element to Yxy 10.2188, 0.1981, 0.0892 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(115, 17, 238) }
```

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

```
.background{ background-color: rgb(115, 17,  
238) }
```

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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