

# Converting Colors

$Y_{xy}(20.2346, 0.2710, 0.1267)$

Have a look what the booklet for  
Yxy(20.2346, 0.2710, 0.1267)  
contains.

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# Color

**Yxy(20.1991, 0.2708, 0.1265)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CD00FF
RGB	205, 0, 255
RGB Percent	80%, 0%, 100%
CMY	0.1958, 1.0000, 0.0000
CMYK	0.20, 1.00, 0.00, 0.00
HSL	288°, 100%, 50%
HSV	288°, 100%, 100%
XYZ	43.2404, 20.1991, 96.2371
YIQ	90.3650, 40.3250, 122.7650

# Conversions

## Conversions Part 2

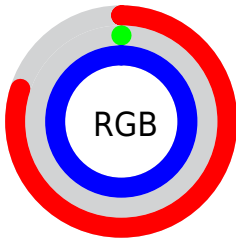
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	205, 0, 255
Decimal	13435135
CIE Lab	52.06, 91.18, -74.59
CIE LCh	52, 117.804, 320.716
Yxy	20.1991, 0.2708, 0.1265
Android (android.graphics.Color)	4291625215 (0xFFCD00FF)
YUV	90.3650, 81.1651, 100.5349
Hunter-Lab	44.9434, 93.0854, -95.4970

# Details

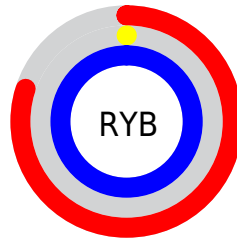
The Yxy color **20.1991, 0.2708, 0.1265** is a light color, and the websafe version is hex **CC00FF**. The color can be described as light saturated magenta. A complement of this color would be **72.1965, 0.3058, 0.5954**, and the grayscale version is **10.1227, 0.3127, 0.3290**.

A 20% lighter version of the original color is **36.8457, 0.3195, 0.1854**, and **9.9605, 0.2534, 0.1170** is the 20% darker color. If you saturate the color by 10%, you get **20.2080, 0.2708, 0.1266**, and if you desaturate by 10%, it is **21.6467, 0.2760, 0.1328**.

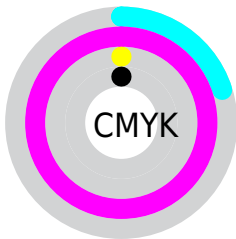
# Distribution



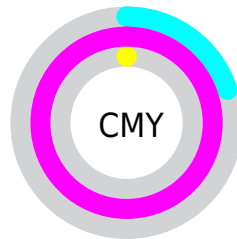
- Red (80%)
- Green (0%)
- Blue (100%)



- Red (80%)
- Yellow (0%)
- Blue (100%)



- Cyan (20%)
- Magenta (100%)
- Yellow (0%)
- Black (0%)




- Cyan (20%)
- Magenta (100%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 20.1991, 0.2708, 0.1265 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 20.1991, 0.2708, 0.1265 by changing the saturation by 10% instead.





 20.1991, 0.2708,  
0.1265


 20.1991, 0.2708,  
0.1265


 252.9909, 0.2989,  
0.2157


 12.5399, 0.2624,  
0.1087


 43.7507, 0.2822,  
0.1557


 7.1125, 0.2510,  
0.0884


 60.4119, 0.2862,  
0.1676

 3.5325, 0.2355,  
0.0658


 80.8425, 0.2894,  
0.1781

 1.4157, 0.2136,  
0.0417

 105.4270, 0.2920,  
0.1874

 0.2282, 0.1837,  
0.0114

 134.5496, 0.2942,  
0.1957

 0.0000, 0.1387,  
0.0000

 168.5949, 0.2960,

 0.0000, 0.0643,

0.2031

0.0000

207.9472, 0.2976,  
0.2097

■ 0.0000, 0.0000,  
0.0000

■ 20.1991, 0.2708,  
0.1265

■ 20.1991, 0.2708,  
0.1265

■ 20.2080, 0.2708,  
0.1266

■ 21.6467, 0.2760,  
0.1328

■ 24.0422, 0.2813,  
0.1430

■ 27.6805, 0.2865,  
0.1580

■ 32.7363, 0.2917,  
0.1773

■ 39.3564, 0.2964,  
0.1999

■ 47.6689, 0.3008,  
0.2250

■ 57.7887, 0.3046,  
0.2514

■ 69.8204, 0.3078,  
0.2780

■ 83.8609, 0.3105,  
0.3041

# Harmonies

## Analogous

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



20.1991, 0.1367, 0.0966



20.1991, 0.2708, 0.1265



20.1991, 0.4886, 0.1888

# Triad

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



20.1991, 0.2708, 0.1265



20.1991, 0.5343, 0.4657



20.1991, 0.0587, 0.2538

# Complementary

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



20.1991, 0.2708, 0.1265



72.1965, 0.3058, 0.5954

# 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.



20.1991, 0.1130, 0.5405



20.1991, 0.2708, 0.1265



20.1991, 0.3751, 0.6249

# Square

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



20.1991, 0.2708, 0.1265



20.1991, 0.6522, 0.3478



20.1991, 0.2281, 0.7332



20.1991, 0.0525, 0.1333



# Rectangle

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



20.1991, 0.2708, 0.1265



20.1991, 0.6191, 0.2402



20.1991, 0.2281, 0.7332



20.1991, 0.0696, 0.3300

# Sweetspot

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



20.2080, 0.2708, 0.1266



57.7887, 0.3046, 0.2514



9.5877, 0.1548, 0.0772



11.4072, 0.3030, 0.2402



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.



20.2080, 0.2708, 0.1266



24.4945, 0.4168, 0.2070



18.1101, 0.3106, 0.3054



10.6227, 0.2717, 0.1270



1.0780, 0.2776, 0.1303

# Inverse Universe

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



21.4898, 0.6126, 0.3148



72.0488, 0.2897, 0.5628



18.0452, 0.3263, 0.3244



11.2452, 0.6091, 0.3129



1.1094, 0.5795, 0.2966

# Previews

## White Background



This preview shows how the Yxy color 20.1991, 0.2708, 0.1265 looks on a white background.

## Color Contrast Check

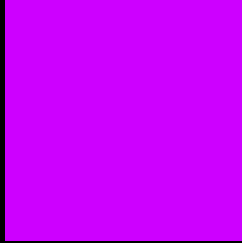
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

# Black Background



This preview shows how the Yxy color 20.1991, 0.2708, 0.1265 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

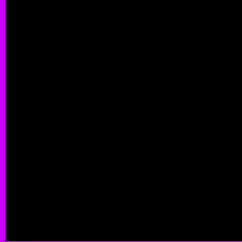
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 20.1991, 0.2708, 0.1265**

## **Background**



This preview shows how black text looks on a background with the Yxy color 20.1991, 0.2708, 0.1265.



This preview shows how white text looks on a background with the Yxy color 20.1991, 0.2708, 0.1265.



# 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

20.1991, 0.2708, 0.1265

### Protanopia

20.9464, 0.1744, 0.1462

### Deuteranopia

20.8202, 0.1835, 0.1804



## Tritanopia

20.3662, 0.4231, 0.3194

# Trichromacy



## Original Color

20.1991, 0.2708, 0.1265



## Protanomaly

14.2332, 0.1787, 0.1060



## Deuteranomaly

13.3789, 0.1823, 0.1171



## Tritanomaly

17.4465, 0.3617, 0.2103

# Monochromacy



## Original Color

20.1991, 0.2708, 0.1265



## Achromatopsia

10.2242, 0.3127, 0.3290



## Achromatomaly

10.0338, 0.2921, 0.1778

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 20.1991, 0.2708, 0.1265 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(205, 0, 255)` looks like.

```
.text, #text, p{  
    color:rgb(205, 0, 255)  
}
```

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(205, 0, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(205, 0, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 20.1991, 0.2708, 0.1265 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(205, 0, 255) }
```

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

```
.border{ border-color:rgb(205, 0, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(205, 0, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(205, 0, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(205, 0, 255);  
box-shadow:4px 4px 4px 4px rgb(205, 0,  
255) }
```

# Background

The CSS property to change the background color of an element to Yxy 20.1991, 0.2708, 0.1265 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(205, 0, 255) }
```

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

```
.background{ background-color: rgb(205, 0,  
255) }
```

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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