

Converting Colors

$Y_{xy}(21.7325, 0.2812, 0.1323)$

Have a look what the booklet for
Yxy(21.7325, 0.2812, 0.1323)
contains.

Yxy(21.6671, 0.2808, 0.1320)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	22
<i>Color Blindness Simulation</i>	25
<i>CSS Examples</i>	28

Color

Yxy(21.6671, 0.2808, 0.1320)

Conversions

Conversions Part 1

Format	Color
Hex	D700FF
RGB	215, 0, 255
RGB Percent	84%, 0%, 100%
CMY	0.1566, 1.0000, 0.0000
CMYK	0.16, 1.00, 0.00, 0.00
HSL	291°, 100%, 50%
HSV	291°, 100%, 100%
XYZ	46.0918, 21.6671, 96.3858
YIQ	93.3550, 46.2850, 124.8850

Conversions

Conversions Part 2

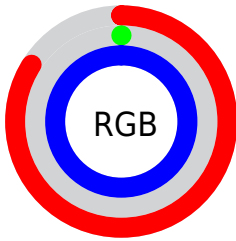
Format	Color
R _Y B	215, 0, 255
Decimal	14090495
CIE _{Lab}	53.67, 92.51, -71.91
CIE _{LCh}	54, 117.175, 322.142
Yxy	21.6671, 0.2808, 0.1320
Android (android.graphics.Color)	4292280575 (0xFFD700FF)
YUV	93.3550, 79.6910, 106.6827
Hunter-Lab	46.5479, 95.2921, -90.1869

Details

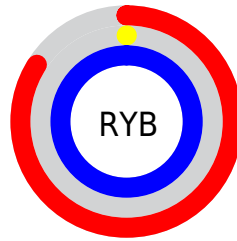
The Yxy color **21.6671, 0.2808, 0.1320** is a light color, and the websafe version is hex **CC00FF**. The color can be described as light saturated magenta. A complement of this color would be **71.9698, 0.3038, 0.5969**, and the grayscale version is **10.8408, 0.3127, 0.3290**.

A 20% lighter version of the original color is **37.2154, 0.3194, 0.1867**, and **10.9012, 0.2660, 0.1239** is the 20% darker color. If you saturate the color by 10%, you get **21.6769, 0.2808, 0.1321**, and if you desaturate by 10%, it is **23.0060, 0.2850, 0.1376**.

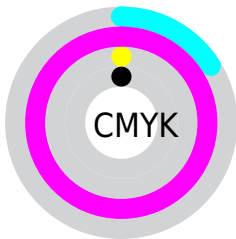
Distribution



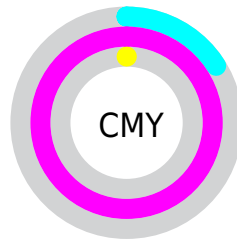
- Red (84%)
- Green (0%)
- Blue (100%)



- Red (84%)
- Yellow (0%)
- Blue (100%)



- Cyan (16%)
- Magenta (100%)
- Yellow (0%)
- Black (0%)





- Cyan (16%)
- Magenta (100%)
- Yellow (0%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 21.6671, 0.2808, 0.1320 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 21.6671, 0.2808, 0.1320 by changing the saturation by 10% instead.


 21.6671, 0.2808,
0.1320


 21.6671, 0.2808,
0.1320


260.8028, 0.3035,
0.2187


 13.6125, 0.2737,
0.1146


 46.1952, 0.2903,
0.1604

 7.8516, 0.2641,
0.0946


 63.4374, 0.2935,
0.1720


 4.0002, 0.2506,
0.0721


 84.5110, 0.2961,
0.1822

 1.6737, 0.2314,
0.0476

 109.8003, 0.2981,
0.1912

 0.4065, 0.2040,
0.0196

 139.6898, 0.2999,
0.1993

 0.0000, 0.1626,
0.0000

174.5637, 0.3013,

 0.0000, 0.0985,

0.2064

0.0000

214.8066, 0.3025,
0.2129

■ 0.0000, 0.0000,
0.0000

■ 21.6671, 0.2808,
0.1320

■ 21.6671, 0.2808,
0.1320

■ 21.6769, 0.2808,
0.1321

■ 23.0060, 0.2850,
0.1376

■ 25.2839, 0.2891,
0.1471

■ 28.7963, 0.2932,
0.1613

■ 33.7182, 0.2972,
0.1797

■ 40.1959, 0.3008,
0.2016

■ 48.3577, 0.3041,
0.2261

■ 58.3183, 0.3069,
0.2519

■ 70.1823, 0.3093,
0.2782

■ 84.0462, 0.3112,
0.3041

Harmonies

Analogous

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



21.6671, 0.1443, 0.1006



21.6671, 0.2808, 0.1320



21.6671, 0.4950, 0.1954

Triad

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



21.6671, 0.2808, 0.1320



21.6671, 0.5263, 0.4737



21.6671, 0.0614, 0.2480

Complementary

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



21.6671, 0.2808, 0.1320



71.9698, 0.3038, 0.5969

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.



21.6671, 0.1138, 0.5186



21.6671, 0.2808, 0.1320



21.6671, 0.3710, 0.6290

Square

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



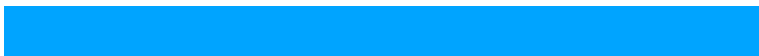
21.6671, 0.2808, 0.1320



21.6671, 0.6441, 0.3559



21.6671, 0.2273, 0.7219



21.6671, 0.0561, 0.1341

Rectangle

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



21.6671, 0.2808, 0.1320



21.6671, 0.6183, 0.2468



21.6671, 0.2273, 0.7219



21.6671, 0.0718, 0.3194

Sweetspot

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



21.6769, 0.2808, 0.1321



58.3183, 0.3069, 0.2519



8.9116, 0.1535, 0.0724



11.5352, 0.3058, 0.2409



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.



21.6769, 0.2808, 0.1321



24.1623, 0.4299, 0.2142



18.1479, 0.3113, 0.3054



11.3808, 0.2815, 0.1324



1.1451, 0.2863, 0.1351

Inverse Universe

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



21.4128, 0.6214, 0.3197



72.1759, 0.2874, 0.5546



18.0334, 0.3270, 0.3253



11.2023, 0.6184, 0.3180



1.1035, 0.5910, 0.3029

Previews

White Background



This preview shows how the Yxy color 21.6671, 0.2808, 0.1320 looks on a white background.

Color Contrast Check

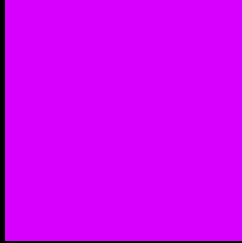
Large Text (above 18pt) WCAG AA ✓ Pass

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 21.6671, 0.2808, 0.1320 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

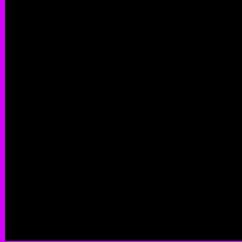
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

Yxy 21.6671, 0.2808, 0.1320

Background



This preview shows how black text looks on a background with the Yxy color 21.6671, 0.2808, 0.1320.



This preview shows how white text looks on a background with the Yxy color 21.6671, 0.2808, 0.1320.

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

21.6671, 0.2808, 0.1320

Protanopia

22.4008, 0.1803, 0.1531

Deuteranopia

22.3287, 0.1831, 0.1792



Tritanopia

21.7780, 0.4367, 0.3201

Trichromacy



Original Color

21.6671, 0.2808, 0.1320



Protanomaly

16.0215, 0.1930, 0.1151



Deuteranomaly

14.2516, 0.1832, 0.1184



Tritanomaly

18.7966, 0.3748, 0.2159

Monochromacy



Original Color

21.6671, 0.2808, 0.1320



Achromatopsia

10.9462, 0.3127, 0.3290



Achromatomaly

10.7133, 0.2969, 0.1812

CSS Examples

Text

The CSS property to change the color of the text to Yxy 21.6671, 0.2808, 0.1320 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(215, 0, 255)` looks like.

```
.text, #text, p{  
    color:rgb(215, 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(215, 0, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(215, 0, 255) }
```

Border

The CSS property to change the border of an element to Yxy 21.6671, 0.2808, 0.1320 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(215, 0, 255) }
```

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

```
.border{ border-color:rgb(215, 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(215, 0, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(215, 0, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(215, 0, 255);  
box-shadow:4px 4px 4px 4px rgb(215, 0,  
255) }
```

Background

The CSS property to change the background color of an element to Yxy 21.6671, 0.2808, 0.1320 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(215, 0, 255) }
```

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

```
.background{ background-color: rgb(215, 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](#).

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