

# Converting Colors

$Y_{xy}(22.6529, 0.2872, 0.1356)$

Have a look what the booklet for  
Yxy(22.6529, 0.2872, 0.1356)  
contains.

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# Color

**Yxy(22.5922, 0.2868, 0.1354)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DD00FF
RGB	221, 0, 255
RGB Percent	87%, 0%, 100%
CMY	0.1335, 0.9982, 0.0002
CMYK	0.13, 1.00, 0.00, 0.00
HSL	292°, 100%, 50%
HSV	292°, 100%, 100%
XYZ	47.8541, 22.5922, 96.4090
YIQ	95.1490, 49.8610, 126.1570

# Conversions

## Conversions Part 2

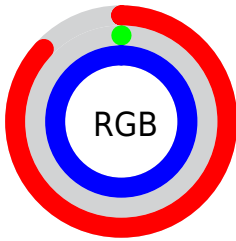
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	221, 0, 255
Decimal	14483711
CIE Lab	54.65, 93.24, -70.24
CIE LCh	55, 116.739, 323.009
Yxy	22.5922, 0.2868, 0.1354
Android (android.graphics.Color)	4292673791 (0xFFDD00FF)
YUV	95.1490, 78.8065, 110.3713
Hunter-Lab	47.5313, 96.5327, -86.9877

# Details

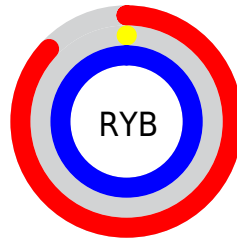
The Yxy color **22.5922, 0.2868, 0.1354** is a light color, and the websafe version is hex **CC00FF**. The color can be described as light saturated magenta. A complement of this color would be **71.8407, 0.3030, 0.5976**, and the grayscale version is **11.3426, 0.3127, 0.3290**.

A 20% lighter version of the original color is **37.4037, 0.3194, 0.1874**, and **11.5048, 0.2736, 0.1281** is the 20% darker color. If you saturate the color by 10%, you get **22.5740, 0.2867, 0.1353**, and if you desaturate by 10%, it is **23.8596, 0.2903, 0.1406**.

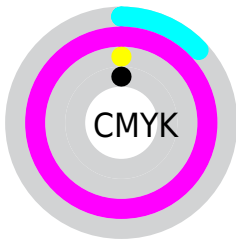
# Distribution



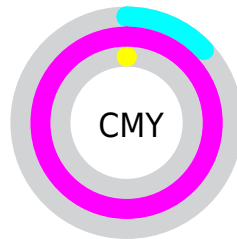
- Red (87%)
- Green (0%)
- Blue (100%)



- Red (87%)
- Yellow (0%)
- Blue (100%)



- Cyan (13%)
- Magenta (100%)
- Yellow (0%)
- Black (0%)



- Cyan (13%)
- Magenta (100%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 22.5922, 0.2868, 0.1354 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 22.5922, 0.2868, 0.1354 by changing the saturation by 10% instead.




 22.5922, 0.2868,  
0.1354


 22.5922, 0.2868,  
0.1354


265.6235, 0.3063,  
0.2206


 14.2927, 0.2805,  
0.1182


 47.7228, 0.2951,  
0.1634


 8.3245, 0.2719,  
0.0984


 65.3228, 0.2978,  
0.1747


 4.3033, 0.2598,  
0.0760


 86.7916, 0.3000,  
0.1848

 1.8446, 0.2422,  
0.0513

 112.5138, 0.3018,  
0.1936

 0.5148, 0.2165,  
0.0242

 142.8736, 0.3033,  
0.2015

 0.0000, 0.1779,  
0.0000

178.2556, 0.3044,

 0.0000, 0.1179,

0.2085

0.0000

219.0441, 0.3054,  
0.2149

■ 0.0000, 0.0000,  
0.0000

■ 22.5922, 0.2868,  
0.1354

■ 22.5922, 0.2868,  
0.1354

■ 22.5740, 0.2867,  
0.1353

■ 23.8596, 0.2903,  
0.1406

■ 26.0803, 0.2938,  
0.1498

■ 29.5345, 0.2972,  
0.1635

■ 34.3962, 0.3005,  
0.1814

■ 40.8115, 0.3034,  
0.2030

■ 48.9082, 0.3061,  
0.2271

■ 58.8008, 0.3083,  
0.2527

■ 70.5935, 0.3101,  
0.2788

■ 84.3828, 0.3116,  
0.3046

# Harmonies

## Analogous

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



22.5922, 0.1489, 0.1030



22.5922, 0.2868, 0.1354



22.5922, 0.4985, 0.1993

# Triad

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



22.5922, 0.2868, 0.1354



22.5922, 0.5215, 0.4785



22.5922, 0.0630, 0.2448

# Complementary

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



22.5922, 0.2868, 0.1354



71.8407, 0.3030, 0.5976

# 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.



22.5922, 0.1143, 0.5059



22.5922, 0.2868, 0.1354



22.5922, 0.3687, 0.6313

# Square

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



22.5922, 0.2868, 0.1354



22.5922, 0.6385, 0.3604



22.5922, 0.2267, 0.7143



22.5922, 0.0583, 0.1347



# Rectangle

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



22.5922, 0.2868, 0.1354



22.5922, 0.6176, 0.2507



22.5922, 0.2267, 0.7143



22.5922, 0.0733, 0.3135

# Sweetspot

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



22.5931, 0.2868, 0.1354



58.6334, 0.3083, 0.2523



8.6466, 0.1530, 0.0705



11.6115, 0.3074, 0.2413



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.



22.5931, 0.2868, 0.1354



22.5828, 0.2867, 0.1353



24.0101, 0.4364, 0.2178



18.1701, 0.3116, 0.3054



11.8478, 0.2873, 0.1356



1.1862, 0.2914, 0.1379



# Inverse Universe

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



21.3795, 0.6255, 0.3220



21.3758, 0.6258, 0.3221



72.2251, 0.2861, 0.5500



18.0266, 0.3273, 0.3259



11.1814, 0.6231, 0.3206



1.1003, 0.5976, 0.3066



# Previews

## White Background



This preview shows how the Yxy color 22.5922, 0.2868, 0.1354 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

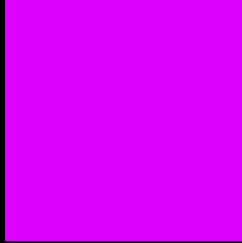
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 22.5922, 0.2868, 0.1354 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

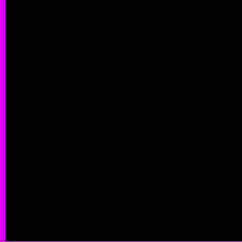
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 22.5922, 0.2868, 0.1354**

## Background



This preview shows how black text looks on a background with the Yxy color 22.5922, 0.2868, 0.1354.



This preview shows how white text looks on a background with the Yxy color 22.5922, 0.2868, 0.1354.

# 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

22.5922, 0.2868, 0.1354

### Protanopia

23.4152, 0.1836, 0.1578

### Deuteranopia

23.2232, 0.1825, 0.1769



## Tritanopia

22.7324, 0.4450, 0.3205

# Trichromacy



## Original Color

22.5922, 0.2868, 0.1354

## Protanomaly

16.8320, 0.1983, 0.1192

## Deuteranomaly

14.7341, 0.1833, 0.1180

## Tritanomaly

19.7953, 0.3837, 0.2198

# Monochromacy



## Original Color

22.5922, 0.2868, 0.1354

## Achromatopsia

11.4435, 0.3127, 0.3290

## Achromatomaly

11.3001, 0.3014, 0.1851

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 22.5922, 0.2868, 0.1354 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(221, 0, 255)` looks like.

```
.text, #text, p{  
    color:rgb(221, 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(221, 0, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(221, 0, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 22.5922, 0.2868, 0.1354 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(221, 0, 255) }
```

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

```
.border{ border-color:rgb(221, 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(221, 0, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(221, 0, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(221, 0, 255);  
box-shadow:4px 4px 4px 4px rgb(221, 0,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 22.5922, 0.2868, 0.1354 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(221, 0, 255) }
```

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

```
.background{ background-color: rgb(221, 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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