

# Converting Colors

$Y_{xy}(22.8640, 0.5779, 0.3071)$

Have a look what the booklet for  
Yxy(22.8640, 0.5779, 0.3071)  
contains.

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**Color**

**Yxy(22.8421, 0.5776, 0.3067)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF214A
RGB	255, 33, 74
RGB Percent	100%, 13%, 29%
CMY	0.0000, 0.8704, 0.7099
CMYK	0.00, 0.87, 0.71, 0.00
HSL	349°, 100%, 56%
HSV	349°, 87%, 100%
XYZ	43.0179, 22.8421, 8.6170
YIQ	104.0520, 119.1510, 59.8150

# Conversions

## Conversions Part 2

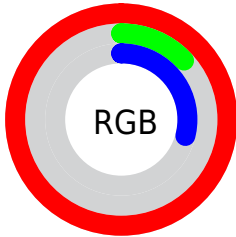
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 33, 74
Decimal	16720202
CIE <sub>Lab</sub>	54.91, 78.25, 36.39
CIE <sub>LCh</sub>	55, 86.295, 24.942
Yxy	22.8421, 0.5776, 0.3067
Android (android.graphics.Color)	4294910282 (0xFFFF214A)
YUV	104.0520, -14.8156, 132.3814
Hunter-Lab	47.7934, 77.0259, 22.7656

# Details

The Yxy color **22.8421, 0.5776, 0.3067** is a dark color, and the websafe version is hex **FF0033**. The color can be described as dark washed red. A complement of this color would be **76.6985, 0.2413, 0.3813**, and the grayscale version is **13.8814, 0.3127, 0.3290**.

A 20% lighter version of the original color is **33.2055, 0.4733, 0.3139**, and **10.9177, 0.6166, 0.3170** is the 20% darker color. If you saturate the color by 10%, you get **21.6815, 0.6081, 0.3142**, and if you desaturate by 10%, it is **25.1629, 0.5385, 0.3022**.

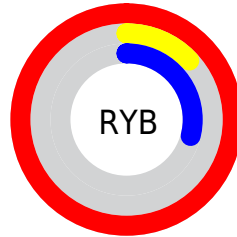
# Distribution



Red (100%)

Green (13%)

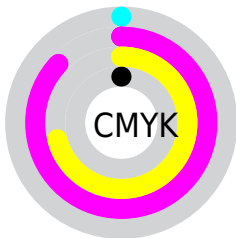
Blue (29%)



Red (100%)

Yellow (13%)

Blue (29%)

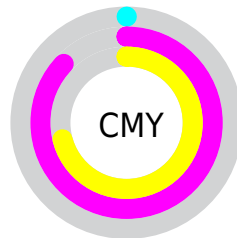


Cyan (0%)

Magenta (87%)

Yellow (71%)

Black (0%)



Cyan (0%)

Magenta (87%)


Yellow (71%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 22.8421, 0.5776, 0.3067 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 22.8421, 0.5776, 0.3067 by changing the saturation by 10% instead.





 22.8421, 0.5776,  
0.3067


 22.8421, 0.5776,  
0.3067


266.9130, 0.4331,  
0.3307


 14.4770, 0.6145,  
0.2956


 48.1339, 0.5236,  
0.3191


 8.4531, 0.6607,  
0.2784


 65.8294, 0.5037,  
0.3226


 4.3862, 0.7214,  
0.2522


 87.4038, 0.4870,  
0.3251

 1.8919, 0.7917,  
0.2083

 113.2414, 0.4728,  
0.3270

 0.5435, 0.8698,  
0.1302

 143.7268, 0.4607,  
0.3283

 0.0000, 1.0000,  
0.0000

179.2442, 0.4503,

 0.0000, 0.0000,

0.3293

0.0000

220.1782, 0.4412,  
0.3301

■ 22.8421, 0.5776,  
0.3067

■ 22.8421, 0.5776,  
0.3067

■ 21.6815, 0.6081,  
0.3142

■ 25.1629, 0.5385,  
0.3022


■ 21.4643, 0.6153,  
0.3163


■ 28.8582, 0.4959,  
0.3011


■ 34.1017, 0.4548,  
0.3027

■ 41.0402, 0.4180,  
0.3063

■ 49.8036, 0.3866,  
0.3109

 60.5088, 0.3607,  
0.3159

 73.2631, 0.3397,  
0.3210

 88.1659, 0.3227,  
0.3258

99.9988, 0.3127,  
0.3290

# Harmonies

## Analogous

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



22.8421, 0.4645, 0.2323



22.8421, 0.5776, 0.3067



22.8421, 0.5796, 0.3885

# Triad

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



22.8421, 0.5776, 0.3067



22.8421, 0.2601, 0.6021



22.8421, 0.1214, 0.1377

# Complementary

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



22.8421, 0.5776, 0.3067



76.6985, 0.2413, 0.3813

# 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.



22.8421, 0.0958, 0.1714



22.8421, 0.5776, 0.3067



22.8421, 0.1568, 0.4443

# Square

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



22.8421, 0.5776, 0.3067



22.8421, 0.3821, 0.5880



22.8421, 0.1038, 0.2652



22.8421, 0.1867, 0.1402



# Rectangle

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



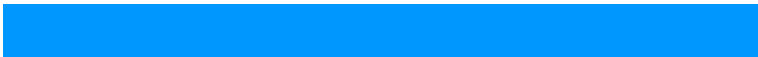
22.8421, 0.5776, 0.3067



22.8421, 0.5318, 0.4525



22.8421, 0.1038, 0.2652



22.8421, 0.1091, 0.1442

# Sweetspot

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



22.8435, 0.5776, 0.3067



61.7399, 0.3583, 0.3165



22.1007, 0.2766, 0.1348



12.3569, 0.3665, 0.3147



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.



22.8435, 0.5776, 0.3067



21.4655, 0.6153, 0.3163



30.4131, 0.5660, 0.3739



18.0418, 0.3265, 0.3246



11.2318, 0.6120, 0.3145



1.1076, 0.5830, 0.2985



# Inverse Universe

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



22.8435, 0.5776, 0.3067



21.4655, 0.6153, 0.3163



43.6860, 0.2024, 0.2407



18.0418, 0.3265, 0.3246



11.2318, 0.6120, 0.3145



1.1076, 0.5830, 0.2985



# Previews

## White Background



This preview shows how the Yxy color 22.8421, 0.5776, 0.3067 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

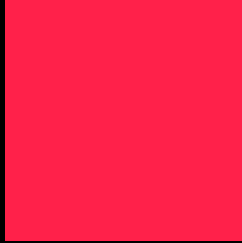
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 22.8421, 0.5776, 0.3067 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 22.8421, 0.5776, 0.3067**

## **Background**



This preview shows how black text looks on a background with the Yxy color 22.8421, 0.5776, 0.3067.



This preview shows how white text looks on a background with the Yxy color 22.8421, 0.5776, 0.3067.

# 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

22.8421, 0.5776, 0.3067

### Protanopia

23.1395, 0.3498, 0.3727

### Deuteranopia

23.0560, 0.4319, 0.4249



## Tritanopia

22.8800, 0.6084, 0.3308

# Trichromacy



## Original Color

22.8421, 0.5776, 0.3067



## Protanomaly

19.1370, 0.4415, 0.3308



## Deuteranomaly

19.7834, 0.5025, 0.3605



## Tritanomaly

22.7698, 0.5996, 0.3234

# Monochromacy



## Original Color

22.8421, 0.5776, 0.3067



## Achromatopsia

13.8432, 0.3127, 0.3290



## Achromatomaly

13.6100, 0.4261, 0.3052

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 22.8421, 0.5776, 0.3067 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(255, 33, 74)` looks like.

```
.text, #text, p{  
    color:rgb(255, 33, 74)  
}
```

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(255, 33, 74) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 33, 74) }
```

## Border

The CSS property to change the border of an element to Yxy 22.8421, 0.5776, 0.3067 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(255, 33, 74) }
```

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

```
.border{ border-color:rgb(255, 33, 74) }
```

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

Here you see how a box with a 4 pixel rgb(255, 33, 74) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 33, 74); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 33, 74);  
box-shadow:4px 4px 4px 4px rgb(255, 33,  
74) }
```



# Background

The CSS property to change the background color of an element to Yxy 22.8421, 0.5776, 0.3067 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 33, 74) }
```

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

```
.background{ background-color: rgb(255, 33,  
74) }
```

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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