

# Converting Colors

$Y_{xy}(21.7970, 0.4999, 0.2689)$

Have a look what the booklet for  
Yxy(21.7970, 0.4999, 0.2689)  
contains.

<b>Yxy(21.8660, 0.5010, 0.2696)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

**Color**

**Yxy(21.8660, 0.5010, 0.2696)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	F22B74
RGB	242, 43, 116
RGB Percent	95%, 17%, 45%
CMY	0.0510, 0.8313, 0.5450
CMYK	0.00, 0.82, 0.52, 0.05
HSL	338°, 88%, 56%
HSV	338°, 82%, 95%
XYZ	40.6338, 21.8660, 18.6056
YIQ	110.8230, 95.1710, 64.8910

# Conversions

## Conversions Part 2

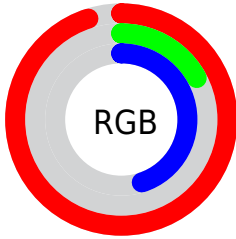
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	242, 43, 116
Decimal	15870836
CIE <sub>Lab</sub>	53.88, 75.44, 9.51
CIE <sub>LCh</sub>	54, 76.033, 7.183
Yxy	21.8660, 0.5010, 0.2696
Android (android.graphics.Color)	4294060916 (0xFFFF22B74)
YUV	110.8230, 2.5523, 115.0422
Hunter-Lab	46.7611, 73.2784, 9.1421

# Details

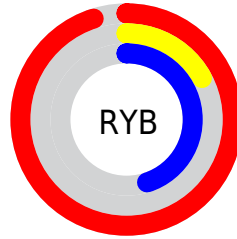
The Yxy color **21.8660, 0.5010, 0.2696** is a dark color, and the websafe version is hex **FF0066**. The color can be described as middle washed rose. A complement of this color would be **66.8807, 0.2573, 0.4311**, and the grayscale version is **15.8183, 0.3127, 0.3290**.

A 20% lighter version of the original color is **35.4560, 0.4138, 0.2717**, and **10.0011, 0.5454, 0.2778** is the 20% darker color. If you saturate the color by 10%, you get **20.2698, 0.5328, 0.2757**, and if you desaturate by 10%, it is **24.5653, 0.4678, 0.2688**.

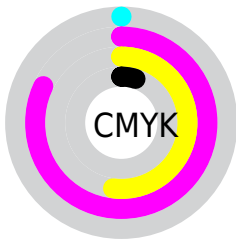
# Distribution



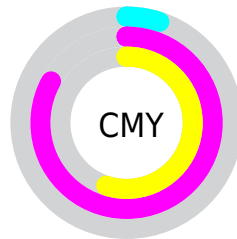
- Red (95%)
- Green (17%)
- Blue (45%)



- Red (95%)
- Yellow (17%)
- Blue (45%)



- Cyan (0%)
- Magenta (82%)
- Yellow (52%)
- Black (5%)




- Cyan (5%)
- Magenta (83%)
- Yellow (55%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 21.8660, 0.5010, 0.2696 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 21.8660, 0.5010, 0.2696 by changing the saturation by 10% instead.





 21.8660, 0.5010,  
0.2696


 21.8660, 0.5010,  
0.2696


261.8457, 0.3960,  
0.3051


 13.7585, 0.5305,  
0.2587


 46.5244, 0.4603,  
0.2840

 7.9529, 0.5702,  
0.2434


 63.8441, 0.4457,  
0.2889

 4.0648, 0.6253,  
0.2209

 85.0033, 0.4338,  
0.2929

 1.7099, 0.7044,  
0.1859

 110.3864, 0.4237,  
0.2962

 0.4300, 0.8809,  
0.1191

 140.3778, 0.4152,  
0.2990

 0.0000, 1.0000,  
0.0000

175.3619, 0.4079,

 0.0000, 0.0000,

0.3013

0.0000

215.7230, 0.4015,  
0.3033

■ 21.8660, 0.5010,  
0.2696

■ 21.8660, 0.5010,  
0.2696

■ 20.2698, 0.5328,  
0.2757

■ 24.5653, 0.4678,  
0.2688


■ 19.5939, 0.5554,  
0.2833


■ 28.5272, 0.4357,  
0.2724


■ 33.8886, 0.4066,  
0.2793


■ 40.7674, 0.3812,  
0.2881

■ 49.2691, 0.3597,  
0.2980

 59.4895, 0.3418,  
0.3080

 71.5170, 0.3271,  
0.3178

 85.4339, 0.3151,  
0.3270

 97.5468, 0.3054,  
0.3300

# Harmonies

## Analogous

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



21.8660, 0.3648, 0.2049



21.8660, 0.5010, 0.2696



21.8660, 0.5670, 0.3443

# Triad

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



21.8660, 0.5010, 0.2696



21.8660, 0.3378, 0.5840



21.8660, 0.1162, 0.1665

# Complementary

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



21.8660, 0.5010, 0.2696



66.8807, 0.2573, 0.4311

# 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.



21.8660, 0.1113, 0.2296



21.8660, 0.5010, 0.2696



21.8660, 0.2262, 0.5267

# Square

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



21.8660, 0.5010, 0.2696



21.8660, 0.4496, 0.5208



21.8660, 0.1446, 0.3613



21.8660, 0.1551, 0.1487



# Rectangle

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



21.8660, 0.5010, 0.2696



21.8660, 0.5565, 0.3985



21.8660, 0.1446, 0.3613



21.8660, 0.1109, 0.1814

# Sweetspot

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



21.8673, 0.5010, 0.2696



63.5183, 0.3466, 0.3051



16.2173, 0.2426, 0.1209



12.7219, 0.3528, 0.3016



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.



21.8673, 0.5010, 0.2696



22.1444, 0.5532, 0.2827



22.9754, 0.5853, 0.3447



15.8547, 0.3236, 0.3204



10.5505, 0.5510, 0.2809



0.8962, 0.5150, 0.2611



# Inverse Universe

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



21.8673, 0.5010, 0.2696



22.1444, 0.5532, 0.2827



57.4742, 0.2196, 0.2984



15.8547, 0.3236, 0.3204



10.5505, 0.5510, 0.2809



0.8962, 0.5150, 0.2611



# Previews

## White Background



This preview shows how the Yxy color 21.8660, 0.5010, 0.2696 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

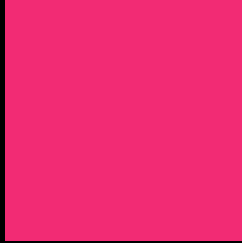
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 21.8660, 0.5010, 0.2696 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 21.8660, 0.5010, 0.2696**

## Background



This preview shows how black text looks on a background with the Yxy color 21.8660, 0.5010, 0.2696.



This preview shows how white text looks on a background with the Yxy color 21.8660, 0.5010, 0.2696.

# 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

21.8660, 0.5010, 0.2696

### Protanopia

22.1140, 0.2742, 0.2745

### Deuteranopia

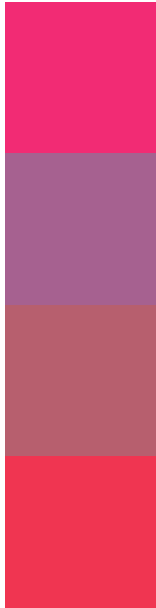
21.9609, 0.3657, 0.3579



## Tritanopia

21.8156, 0.5720, 0.3283

# Trichromacy



**Original Color**

21.8660, 0.5010, 0.2696

**Protanomaly**

18.6700, 0.3459, 0.2580

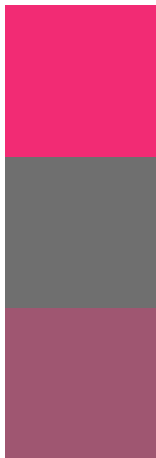
**Deuteranomaly**

19.3775, 0.4202, 0.3080

**Tritanomaly**

21.6656, 0.5505, 0.3082

# Monochromacy



**Original Color**

21.8660, 0.5010, 0.2696

**Achromatopsia**

15.8961, 0.3127, 0.3290

**Achromatomaly**

15.2188, 0.3866, 0.2855

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 21.8660, 0.5010, 0.2696 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(242, 43, 116)` looks like.

```
.text, #text, p{  
    color:rgb(242, 43, 116)  
}
```

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(242, 43, 116) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 43, 116) }
```

## Border

The CSS property to change the border of an element to Yxy 21.8660, 0.5010, 0.2696 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(242, 43, 116) }
```

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

```
.border{ border-color:rgb(242, 43, 116) }
```

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

Here you see how a box with a 4 pixel `rgb(242, 43, 116)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 43, 116); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 43, 116);  
box-shadow:4px 4px 4px 4px rgb(242, 43,  
116) }
```



# Background

The CSS property to change the background color of an element to Yxy 21.8660, 0.5010, 0.2696 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 43, 116) }
```

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

```
.background{ background-color: rgb(242, 43,  
116) }
```

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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