

# Converting Colors

$Y_{xy}(21.7861, 0.2808, 0.2415)$

Have a look what the booklet for  
Yxy(21.7861, 0.2808, 0.2415)  
contains.

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# Color

**Yxy(21.7636, 0.2810, 0.2420)**

# Conversions

Conversions Part 1	
Format	Color
Hex	8E76AE
RGB	142, 118, 174
RGB Percent	56%, 46%, 68%
CMY	0.4431, 0.5372, 0.3178
CMYK	0.18, 0.32, 0.00, 0.32
HSL	266°, 26%, 57%
HSV	266°, 32%, 68%
XYZ	25.2710, 21.7636, 42.8977
YIQ	131.5600, -3.6720, 22.5040

# Conversions

## Conversions Part 2

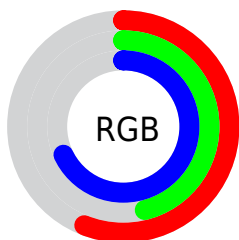
Format	Color
<a href="#">RYB</a>	<a href="#">142, 118, 174</a>
Decimal	<a href="#">9336494</a>
CIELab	<a href="#">53.78, 20.76, -26.32</a>
CIELCh	<a href="#">54, 33.517, 308.265</a>
Yxy	<a href="#">21.7636, 0.2810, 0.2420</a>
Android (android.graphics.Color)	<a href="#">4287526574</a> (0xFF8E76AE)
YUV	<a href="#">131.5600, 20.9229, 9.1559</a>
Hunter-Lab	<a href="#">46.6515, 15.0528, -21.8632</a>

# Details

The Yxy color  $21.7636, 0.2810, 0.2420$  is a dark color, and the websafe version is hex  $996699$ . A complement of this color would be  $38.0510, 0.3371, 0.4141$ , and the grayscale version is  $22.8327, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $46.1984, 0.2878, 0.2585$ , and  $7.8609, 0.2686, 0.2134$  is the 20% darker color. If you saturate the color by 10%, you get  $17.1974, 0.2683, 0.2119$ , and if you desaturate by 10%, it is  $27.1657, 0.2924, 0.2711$ .

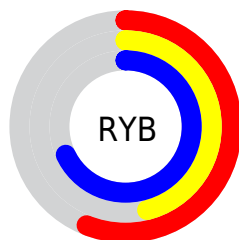
# Distribution



Red (56%)

Green (46%)

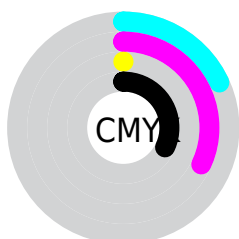
Blue (68%)



Red (56%)

Yellow (46%)

Blue (68%)

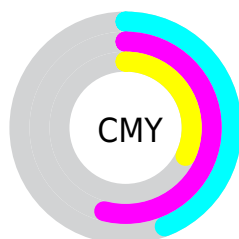


Cyan (18%)

Magenta (32%)

Yellow (0%)

Black (32%)



Cyan (44%)

Magenta (54%)


Yellow (32%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 21.7636, 0.2810, 0.2420 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 21.7636, 0.2810, 0.2420 by changing the saturation by 10% instead.





 21.7636, 0.2810,  
0.2420


 21.7636, 0.2810,  
0.2420


261.3092, 0.2994,  
0.2881

 13.6833, 0.2755,  
0.2297

 46.3550, 0.2883,  
0.2594

 7.9007, 0.2678,  
0.2135


 63.6348, 0.2909,  
0.2657

 4.0315, 0.2563,  
0.1914


 84.7500, 0.2930,  
0.2710

 1.6912, 0.2381,  
0.1598

110.0849, 0.2947,  
0.2755

 0.4179, 0.2094,  
0.0967

140.0238, 0.2961,  
0.2793


 0.0000, 0.0000,  
0.0000


174.9513, 0.2974,


0.2826


215.2516, 0.2984,  
0.2856

 21.7636, 0.2810,  
0.2420

 21.7636, 0.2810,  
0.2420

 17.1974, 0.2683,  
0.2119


 27.1657, 0.2924,  
0.2711


 13.4207, 0.2545,  
0.1818


 33.4414, 0.3024,  
0.2986


 10.3867, 0.2400,  
0.1531


 40.6292, 0.3110,  
0.3238


 8.0423, 0.2254,  
0.1275


 48.7647, 0.3184,  
0.3468


 6.3270, 0.2113,  
0.1064

 57.8813, 0.3246,  
0.3675


 5.1692, 0.1986,  
0.0908

 68.0109, 0.3298,  
0.3859

 4.5338, 0.1897,  
0.0819

 79.1840, 0.3342,  
0.4024

 90.0275, 0.3382,  
0.4150

 91.6389, 0.3449,  
0.4131

# Harmonies

## Analogous

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



21.7636, 0.2342, 0.2349



21.7636, 0.2810, 0.2420



21.7636, 0.3416, 0.2674

# Triad

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



21.7636, 0.2810, 0.2420



21.7636, 0.4264, 0.3974



21.7636, 0.2313, 0.3455

# Complementary

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



21.7636, 0.2810, 0.2420



38.0510, 0.3371, 0.4141

# 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.



21.7636, 0.2772, 0.4048



21.7636, 0.2810, 0.2420



21.7636, 0.3904, 0.4312

# Square

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



21.7636, 0.2810, 0.2420



21.7636, 0.4305, 0.3522



21.7636, 0.3355, 0.4374



21.7636, 0.2077, 0.2876



# Rectangle

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



21.7636, 0.2810, 0.2420



21.7636, 0.3814, 0.2923



21.7636, 0.3355, 0.4374



21.7636, 0.2444, 0.3665

# Sweetspot

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



21.7645, 0.2810, 0.2420



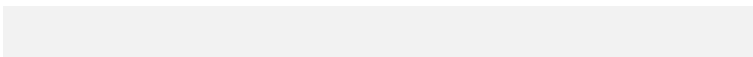
63.1441, 0.3042, 0.3038



28.9287, 0.2631, 0.2914



13.6541, 0.3030, 0.3002



89.0005, 0.3127, 0.3290



17.0645, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



21.7645, 0.2810, 0.2420



33.1214, 0.2715, 0.2194



24.4828, 0.3111, 0.2494



7.9188, 0.3050, 0.3060



3.3232, 0.1908, 0.0825



0.1251, 0.2273, 0.1026



# Inverse Universe

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



24.1556, 0.3441, 0.2824



38.3005, 0.3541, 0.2712



35.7556, 0.3123, 0.4210



8.0891, 0.3201, 0.3161



7.1980, 0.4631, 0.2325



0.2109, 0.4095, 0.2029



# Previews

## White Background



This preview shows how the Yxy color 21.7636, 0.2810, 0.2420 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

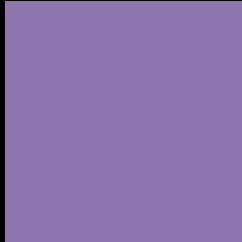
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 21.7636, 0.2810, 0.2420 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 21.7636, 0.2810, 0.2420**

## Background



This preview shows how black text looks on a background with the Yxy color 21.7636, 0.2810, 0.2420.



This preview shows how white text looks on a background with the Yxy color 21.7636, 0.2810, 0.2420.

# 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

21.7636, 0.2810, 0.2420

### Protanopia

21.9597, 0.2476, 0.2404

### Deuteranopia

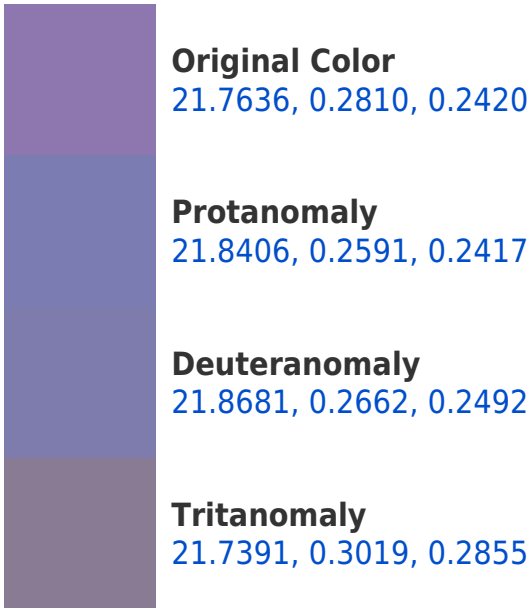
21.9392, 0.2589, 0.2539



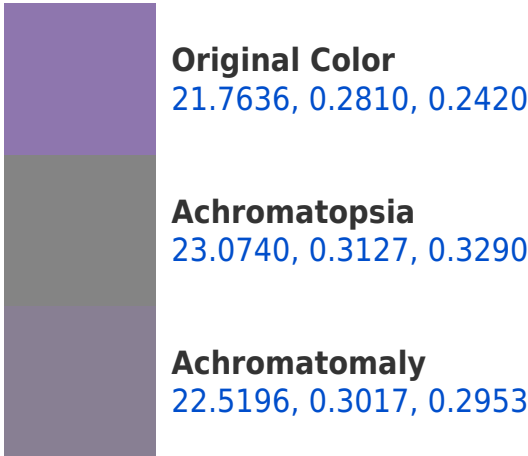
## Tritanopia

21.8219, 0.3134, 0.3134

# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 21.7636, 0.2810, 0.2420 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(142, 118, 174)` looks like.

```
.text, #text, p{  
    color:rgb(142, 118, 174)  
}
```

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(142, 118, 174) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(142, 118, 174) }
```

## Border

The CSS property to change the border of an element to Yxy 21.7636, 0.2810, 0.2420 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(142, 118, 174) }
```

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

```
.border{ border-color:rgb(142, 118, 174) }
```

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

Here you see how a box with a 4 pixel rgb(142, 118, 174) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(142, 118, 174); -webkit-box-  
shadow:4px 4px 4px 4px rgb(142, 118, 174);  
box-shadow:4px 4px 4px 4px rgb(142, 118,  
174) }
```



# Background

The CSS property to change the background color of an element to Yxy 21.7636, 0.2810, 0.2420 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(142, 118, 174) }
```

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

```
.background{ background-color: rgb(142,  
118, 174) }
```

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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