

# Converting Colors

$Y_{xy}(20.4477, 0.3203, 0.2193)$

Have a look what the booklet for  
Yxy(20.4477, 0.3203, 0.2193)  
contains.

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# Color

**Yxy(20.4477, 0.3203, 0.2193)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	B15EAF
RGB	177, 94, 175
RGB Percent	69%, 37%, 69%
CMY	0.3060, 0.6312, 0.3137
CMYK	0.00, 0.47, 0.01, 0.31
HSL	301°, 35%, 53%
HSV	301°, 47%, 69%
XYZ	29.8650, 20.4477, 42.9280
YIQ	128.0510, 23.4670, 42.7870

# Conversions

## Conversions Part 2

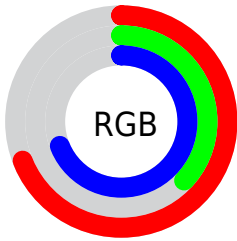
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	177, 94, 175
Decimal	11624111
CIE <sub>Lab</sub>	52.34, 45.35, -28.83
CIE <sub>LCh</sub>	52, 53.739, 327.561
Yxy	20.4477, 0.3203, 0.2193
Android (android.graphics.Color)	4289814191 (0xFFB15EAF)
YUV	128.0510, 23.1459, 42.9283
Hunter-Lab	45.2191, 38.7570, -24.6326

# Details

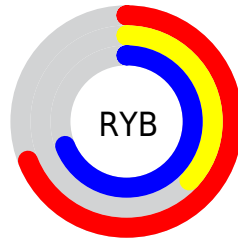
The Yxy color  $20.4477, 0.3203, 0.2193$  is a dark color, and the websafe version is hex `CC66CC`. A complement of this color would be  $34.6549, 0.3047, 0.4704$ , and the grayscale version is  $21.5192, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $44.1294, 0.3196, 0.2399$ , and  $7.1986, 0.3194, 0.1859$  is the 20% darker color. If you saturate the color by 10%, you get  $17.6364, 0.3219, 0.1997$ , and if you desaturate by 10%, it is  $23.9824, 0.3186, 0.2413$ .

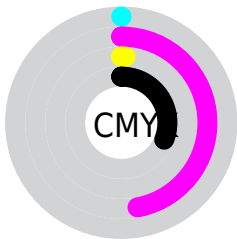
# Distribution



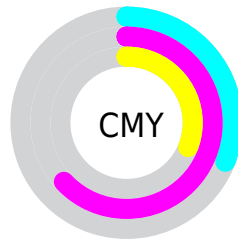
- Red (69%)
- Green (37%)
- Blue (69%)



- Red (69%)
- Yellow (37%)
- Blue (69%)



- Cyan (0%)
- Magenta (47%)
- Yellow (1%)
- Black (31%)




- Cyan (31%)
- Magenta (63%)
- Yellow (31%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 20.4477, 0.3203, 0.2193 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 20.4477, 0.3203, 0.2193 by changing the saturation by 10% instead.





 20.4477, 0.3203,  
0.2193

 20.4477, 0.3203,  
0.2193


254.3286, 0.3181,  
0.2759


 12.7209, 0.3202,  
0.2048


 44.1665, 0.3200,  
0.2402


 7.2366, 0.3195,  
0.1862


 60.9273, 0.3197,  
0.2479

 3.6105, 0.3177,  
0.1615


 81.4683, 0.3194,  
0.2545

 1.4582, 0.3131,  
0.1278

 106.1737, 0.3191,  
0.2600

 0.2590, 0.3096,  
0.0548

135.4281, 0.3188,  
0.2648

 0.0000, 0.2153,  
0.0000

169.6157, 0.3186,

 0.0000, 0.0000,

0.2690

0.0000

209.1211, 0.3183,  
0.2727

■ 20.4477, 0.3203,  
0.2193

■ 20.4477, 0.3203,  
0.2193

■ 17.6364, 0.3219,  
0.1997

■ 23.9824, 0.3186,  
0.2413

■ 15.4957, 0.3234,  
0.1834

■ 28.2831, 0.3170,  
0.2648

■ 13.9703, 0.3247,  
0.1710


■ 33.3920, 0.3153,  
0.2890


■ 12.9947, 0.3258,  
0.1628

■ 39.3479, 0.3137,  
0.3129


■ 12.4763, 0.3266,  
0.1585

■ 46.1868, 0.3123,  
0.3362

 12.3508, 0.3269,  
0.1574

 53.9426, 0.3109,  
0.3583

 62.6475, 0.3097,  
0.3789

 72.3323, 0.3086,  
0.3980

 83.0261, 0.3076,  
0.4156

# Harmonies

## Analogous

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



20.4477, 0.2319, 0.1913



20.4477, 0.3203, 0.2193



20.4477, 0.4218, 0.2685

# Triad

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



20.4477, 0.3203, 0.2193



20.4477, 0.4528, 0.4655



20.4477, 0.1603, 0.2862

# Complementary

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



20.4477, 0.3203, 0.2193



34.6549, 0.3047, 0.4704

# 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.



20.4477, 0.2041, 0.3927



20.4477, 0.3203, 0.2193



20.4477, 0.3723, 0.5103

# Square

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



20.4477, 0.3203, 0.2193



20.4477, 0.5009, 0.3982



20.4477, 0.2815, 0.4890



20.4477, 0.1520, 0.2179



# Rectangle

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



20.4477, 0.3203, 0.2193



20.4477, 0.4752, 0.3090



20.4477, 0.2815, 0.4890



20.4477, 0.1707, 0.3186

# Sweetspot

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



20.4486, 0.3203, 0.2193



62.4837, 0.3149, 0.2953



13.6389, 0.2267, 0.1851



13.0776, 0.3152, 0.2902



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.



20.4486, 0.3203, 0.2193



31.5598, 0.3219, 0.1995



19.0780, 0.3755, 0.2710



8.6432, 0.3141, 0.3071



8.9542, 0.3268, 0.1574



0.2828, 0.3251, 0.1564



# Inverse Universe

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



20.4486, 0.3203, 0.2193



31.5598, 0.3219, 0.1995



35.6131, 0.2771, 0.3973



8.6432, 0.3141, 0.3071



8.9542, 0.3268, 0.1574



0.2828, 0.3251, 0.1564



# Previews

## White Background



This preview shows how the Yxy color 20.4477, 0.3203, 0.2193 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

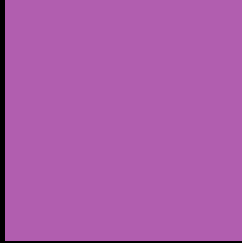
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 20.4477, 0.3203, 0.2193 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

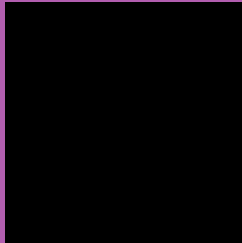
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 20.4477, 0.3203, 0.2193**

## Background



This preview shows how black text looks on a background with the Yxy color 20.4477, 0.3203, 0.2193.



This preview shows how white text looks on a background with the Yxy color 20.4477, 0.3203, 0.2193.

# 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

20.4477, 0.3203, 0.2193

### Protanopia

20.8308, 0.2231, 0.2082

### Deuteranopia

20.7623, 0.2553, 0.2507



## Tritanopia

20.5321, 0.3873, 0.3169

# Trichromacy



**Original Color**

20.4477, 0.3203, 0.2193

**Protanomaly**

19.7417, 0.2502, 0.2084

**Deuteranomaly**

20.0231, 0.2759, 0.2351

**Tritanomaly**

20.3909, 0.3634, 0.2786

# Monochromacy



**Original Color**

20.4477, 0.3203, 0.2193

**Achromatopsia**

21.5861, 0.3127, 0.3290

**Achromatomaly**

20.6461, 0.3162, 0.2813

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 20.4477, 0.3203, 0.2193 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(177, 94, 175)` looks like.

```
.text, #text, p{  
    color:rgb(177, 94, 175)  
}
```

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(177, 94, 175) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(177, 94, 175) }
```

## Border

The CSS property to change the border of an element to Yxy 20.4477, 0.3203, 0.2193 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(177, 94, 175) }
```

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

```
.border{ border-color:rgb(177, 94, 175) }
```

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

Here you see how a box with a 4 pixel `rgb(177, 94, 175)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(177, 94, 175); -webkit-box-  
shadow:4px 4px 4px 4px rgb(177, 94, 175);  
box-shadow:4px 4px 4px 4px rgb(177, 94,  
175) }
```



# Background

The CSS property to change the background color of an element to Yxy 20.4477, 0.3203, 0.2193 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(177, 94, 175) }
```

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

```
.background{ background-color: rgb(177, 94,  
175) }
```

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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