

Converting Colors

$Y_{xy}(20.4286, 0.3434, 0.2431)$

Have a look what the booklet for
Yxy(20.4286, 0.3434, 0.2431)
contains.

Yxy(20.2993, 0.3428, 0.2423)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(20.2993, 0.3428, 0.2423)

Conversions

Conversions Part 1

Format	Color
Hex	B2609E
RGB	178, 96, 158
RGB Percent	70%, 38%, 62%
CMY	0.3019, 0.6236, 0.3803
CMYK	0.00, 0.46, 0.11, 0.30
HSL	315°, 35%, 54%
HSV	315°, 46%, 70%
XYZ	28.7189, 20.2993, 34.7593
YIQ	127.5860, 28.9700, 36.6660

Conversions

Conversions Part 2

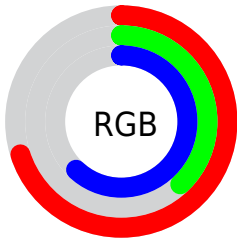
Format	Color
R _Y B	178, 96, 158
Decimal	11690142
CIE Lab	52.17, 41.66, -19.15
CIE LCh	52, 45.852, 335.317
Yxy	20.2993, 0.3428, 0.2423
Android (android.graphics.Color)	4289880222 (0xFFB2609E)
YUV	127.5860, 14.9941, 44.2131
Hunter-Lab	45.0547, 34.9343, -14.2033

Details

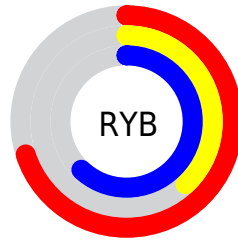
The Yxy color $20.2993, 0.3428, 0.2423$ is a dark color, and the websafe version is hex `CC6699`. A complement of this color would be $35.5959, 0.2928, 0.4361$, and the grayscale version is $21.3755, 0.3127, 0.3290$.

A 20% lighter version of the original color is $43.9612, 0.3366, 0.2595$, and $7.1283, 0.3523, 0.2145$ is the 20% darker color. If you saturate the color by 10%, you get $17.2650, 0.3517, 0.2256$, and if you desaturate by 10%, it is $24.0762, 0.3347, 0.2607$.

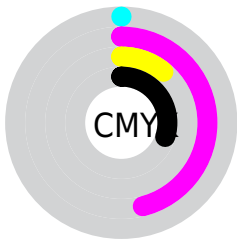
Distribution



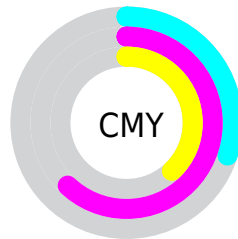
- Red (70%)
- Green (38%)
- Blue (62%)



- Red (70%)
- Yellow (38%)
- Blue (62%)



- Cyan (0%)
- Magenta (46%)
- Yellow (11%)
- Black (30%)



- Cyan (30%)
- Magenta (62%)
- Yellow (38%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 20.2993, 0.3428, 0.2423 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 20.2993, 0.3428, 0.2423 by changing the saturation by 10% instead.


 20.2993, 0.3428,
0.2423


 20.2993, 0.3428,
0.2423


253.5308, 0.3272,
0.2882


 12.6128, 0.3468,
0.2301


 43.9184, 0.3370,
0.2596

 7.1625, 0.3520,
0.2140


 60.6198, 0.3349,
0.2659

 3.5639, 0.3588,
0.1918


 81.0950, 0.3331,
0.2711

 1.4327, 0.3682,
0.1599

 105.7283, 0.3316,
0.2756

 0.2407, 0.3975,
0.0728

134.9041, 0.3303,
0.2794

 0.0000, 0.3287,
0.0000

169.0069, 0.3291,

 0.0000, 0.0000,

0.2827

0.0000

208.4210, 0.3281,
0.2856

■ 20.2993, 0.3428,
0.2423

■ 20.2993, 0.3428,
0.2423

■ 17.2650, 0.3517,
0.2256

■ 24.0762, 0.3347,
0.2607

■ 14.9202, 0.3611,
0.2117

■ 28.6386, 0.3275,
0.2799

■ 13.2091, 0.3709,
0.2014


■ 34.0292, 0.3211,
0.2992


■ 12.0660, 0.3806,
0.1955

■ 40.2871, 0.3157,
0.3180


■ 11.4053, 0.3901,
0.1943


■ 47.4488, 0.3110,
0.3359

 11.2057, 0.3939,
0.1943

 55.5486, 0.3070,
0.3528

 64.6192, 0.3036,
0.3686

 74.6915, 0.3008,
0.3831

 85.0226, 0.2985,
0.3952

Harmonies

Analogous

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



20.2993, 0.2606, 0.2116



20.2993, 0.3428, 0.2423



20.2993, 0.4260, 0.2906

Triad

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



20.2993, 0.3428, 0.2423



20.2993, 0.4214, 0.4632



20.2993, 0.1737, 0.2750

Complementary

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



20.2993, 0.3428, 0.2423



35.5959, 0.2928, 0.4361

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.



20.2993, 0.2057, 0.3592



20.2993, 0.3428, 0.2423



20.2993, 0.3473, 0.4853

Square

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



20.2993, 0.3428, 0.2423



20.2993, 0.4705, 0.4096



20.2993, 0.2683, 0.4465



20.2993, 0.1732, 0.2231

Rectangle

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



20.2993, 0.3428, 0.2423



20.2993, 0.4642, 0.3287



20.2993, 0.2683, 0.4465



20.2993, 0.1808, 0.3001

Sweetspot

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



20.3002, 0.3428, 0.2423



63.6593, 0.3201, 0.3027



15.2325, 0.2457, 0.1938



13.5982, 0.3213, 0.2986



91.1408, 0.3127, 0.3290



17.8868, 0.3127, 0.3290

Same Dimension

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



20.3002, 0.3428, 0.2423



31.3637, 0.3515, 0.2258



19.1358, 0.4009, 0.2973



8.6106, 0.3173, 0.3119



8.0260, 0.3929, 0.1938



0.2611, 0.3690, 0.1806

Inverse Universe

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



20.3002, 0.3428, 0.2423



31.3637, 0.3515, 0.2258



36.7404, 0.2657, 0.3649



8.6106, 0.3173, 0.3119



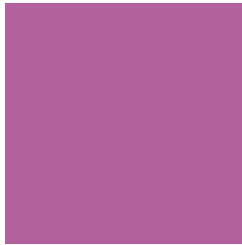
8.0260, 0.3929, 0.1938



0.2611, 0.3690, 0.1806

Previews

White Background



This preview shows how the Yxy color 20.2993, 0.3428, 0.2423 looks on a white background.

Color Contrast Check

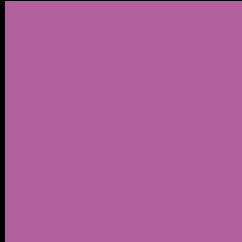
Large Text (above 18pt) WCAG AA ✓ Pass

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 20.2993, 0.3428, 0.2423 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

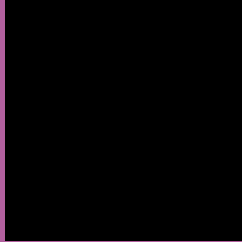
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

Yxy 20.2993, 0.3428, 0.2423

Background



This preview shows how black text looks on a background with the Yxy color 20.2993, 0.3428, 0.2423.



This preview shows how white text looks on a background with the Yxy color 20.2993, 0.3428, 0.2423.

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

20.2993, 0.3428, 0.2423

Protanopia

20.5061, 0.2445, 0.2367

Deuteranopia

20.4299, 0.2810, 0.2750



Tritanopia

20.3846, 0.3965, 0.3186

Trichromacy



Original Color

20.2993, 0.3428, 0.2423

Protanomaly

19.7371, 0.2736, 0.2355

Deuteranomaly

20.0165, 0.3013, 0.2606

Tritanomaly

20.2017, 0.3777, 0.2891

Monochromacy



Original Color

20.2993, 0.3428, 0.2423

Achromatopsia

21.5861, 0.3127, 0.3290

Achromatomaly

20.4659, 0.3233, 0.2907

CSS Examples

Text

The CSS property to change the color of the text to Yxy 20.2993, 0.3428, 0.2423 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(178, 96, 158)` looks like.

```
.text, #text, p{  
  color:rgb(178, 96, 158)  
}
```

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(178, 96, 158) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(178, 96, 158) }
```

Border

The CSS property to change the border of an element to Yxy 20.2993, 0.3428, 0.2423 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(178, 96, 158) }
```

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

```
.border{ border-color:rgb(178, 96, 158) }
```

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

Here you see how a box with a 4 pixel `rgb(178, 96, 158)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(178, 96, 158); -webkit-box-  
shadow:4px 4px 4px 4px rgb(178, 96, 158);  
box-shadow:4px 4px 4px 4px rgb(178, 96,  
158) }
```


Background

The CSS property to change the background color of an element to Yxy 20.2993, 0.3428, 0.2423 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(178, 96, 158) }
```

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

```
.background{ background-color: rgb(178, 96,  
158) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor