

Converting Colors

$Y_{xy}(20.4355, 0.2158, 0.2293)$

Have a look what the booklet for
Yxy(20.4355, 0.2158, 0.2293)
contains.

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Color

Yxy(20.3231, 0.2158, 0.2287)

Conversions

Conversions Part 1

Format	Color
Hex	4780BA
RGB	71, 128, 186
RGB Percent	28%, 50%, 73%
CMY	0.7218, 0.4980, 0.2706
CMYK	0.62, 0.31, 0.00, 0.27
HSL	210°, 45%, 50%
HSV	210°, 62%, 73%
XYZ	19.1768, 20.3231, 49.3637
YIQ	117.5690, -52.5900, 5.9540

Conversions

Conversions Part 2

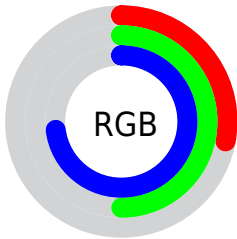
Format	Color
R _Y B	71, 109, 186
Decimal	4686010
CIE Lab	52.20, -0.71, -36.06
CIE LCh	52, 36.063, 268.871
Yxy	20.3231, 0.2158, 0.2287
Android (android.graphics.Color)	4282876090 (0xFF4780BA)
YUV	117.5690, 33.7365, -40.8410
Hunter-Lab	45.0811, -2.9611, -33.3656

Details

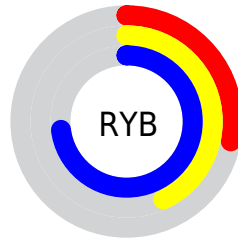
The Yxy color **20.3231, 0.2158, 0.2287** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **26.5740, 0.4473, 0.4067**, and the grayscale version is **17.8767, 0.3127, 0.3290**.

A 20% lighter version of the original color is **44.1257, 0.2363, 0.2506**, and **7.2579, 0.1877, 0.1957** is the 20% darker color. If you saturate the color by 10%, you get **17.3918, 0.2026, 0.2091**, and if you desaturate by 10%, it is **23.6969, 0.2305, 0.2479**.

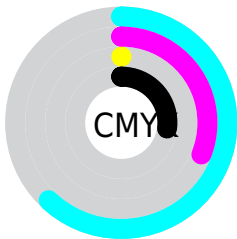
Distribution



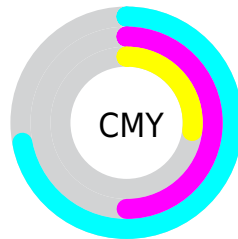
- Red (28%)
- Green (50%)
- Blue (73%)



- Red (28%)
- Yellow (43%)
- Blue (73%)



- Cyan (62%)
- Magenta (31%)
- Yellow (0%)
- Black (27%)



- Cyan (72%)
- Magenta (50%)
- Yellow (27%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 20.3231, 0.2158, 0.2287 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 20.3231, 0.2158, 0.2287 by changing the saturation by 10% instead.

■ 20.3231, 0.2158,
0.2287

■ 20.3231, 0.2158,
0.2287

■ 253.6589, 0.2686,
0.2835

■ 12.6301, 0.2015,
0.2138

■ 43.9582, 0.2359,
0.2496

■ 7.1743, 0.1826,
0.1942

■ 60.6692, 0.2432,
0.2571

■ 3.5714, 0.1571,
0.1674

■ 81.1549, 0.2492,
0.2634

■ 1.4368, 0.1215,
0.1301

■ 105.7998, 0.2543,
0.2687

■ 0.2436, 0.0462,
0.0526

■ 134.9882, 0.2587,
0.2732

■ 0.0000, 0.0000,
0.0000

169.1046, 0.2624,

0.2771

208.5334, 0.2657,
0.2805

■ 20.3231, 0.2158,
0.2287

■ 20.3231, 0.2158,
0.2287

■ 17.3918, 0.2026,
0.2091

■ 23.6969, 0.2305,
0.2479

■ 14.8745, 0.1914,
0.1897

■ 27.5347, 0.2462,
0.2662

■ 12.7411, 0.1826,
0.1709

■ 31.8588, 0.2624,
0.2835

■ 11.2441, 0.1768,
0.1564

■ 36.6892, 0.2786,
0.2993

■ 42.0446, 0.2945,
0.3138

■ 47.9427, 0.3099,
0.3267

■ 54.4001, 0.3246,
0.3383

■ 61.4327, 0.3385,
0.3485

■ 69.0558, 0.3514,
0.3576

Harmonies

Analogous

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



20.3231, 0.1966, 0.2518



20.3231, 0.2158, 0.2287



20.3231, 0.2595, 0.2298

Triad

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



20.3231, 0.2158, 0.2287



20.3231, 0.4355, 0.3374



20.3231, 0.2924, 0.4292

Complementary

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



20.3231, 0.2158, 0.2287



26.5740, 0.4473, 0.4067

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.



20.3231, 0.3569, 0.4510



20.3231, 0.2158, 0.2287



20.3231, 0.4431, 0.3876

Square

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



20.3231, 0.2158, 0.2287



20.3231, 0.3894, 0.2896



20.3231, 0.4126, 0.4310



20.3231, 0.2368, 0.3689

Rectangle

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



20.3231, 0.2158, 0.2287



20.3231, 0.3001, 0.2422



20.3231, 0.4126, 0.4310



20.3231, 0.3138, 0.4416

Sweetspot

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



20.3238, 0.2158, 0.2287



68.8823, 0.2827, 0.3031



38.0244, 0.2713, 0.4284



14.5778, 0.2780, 0.2988



95.5105, 0.3127, 0.3290



19.5994, 0.3127, 0.3290

Same Dimension

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



20.3238, 0.2158, 0.2287



29.9076, 0.1986, 0.2025



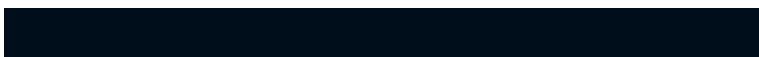
9.3816, 0.1941, 0.1328



9.4355, 0.2985, 0.3172



7.7147, 0.1774, 0.1586



0.3958, 0.1906, 0.2061

Inverse Universe

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



16.4966, 0.4054, 0.2534



24.7387, 0.4371, 0.2450



46.0089, 0.3985, 0.4708



9.0845, 0.3212, 0.3177



7.5611, 0.4948, 0.2500



0.2791, 0.4385, 0.2189

Previews

White Background



This preview shows how the Yxy color 20.3231, 0.2158, 0.2287 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 20.3231, 0.2158, 0.2287 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

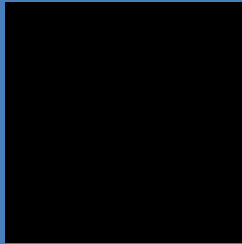
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

Yxy 20.3231, 0.2158, 0.2287

Background



This preview shows how black text looks on a background with the Yxy color 20.3231, 0.2158, 0.2287.



This preview shows how white text looks on a background with the Yxy color 20.3231, 0.2158, 0.2287.

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

20.3231, 0.2158, 0.2287

Protanopia

20.1983, 0.2395, 0.2303

Deuteranopia

20.1335, 0.2281, 0.2222



Tritanopia

20.4450, 0.2323, 0.3067

Trichromacy



Original Color

20.3231, 0.2158, 0.2287

Protanomaly

20.1095, 0.2295, 0.2288

Deuteranomaly

20.2335, 0.2232, 0.2242

Tritanomaly

20.2781, 0.2257, 0.2753

Monochromacy



Original Color

20.3231, 0.2158, 0.2287

Achromatopsia

18.1164, 0.3127, 0.3290

Achromatomaly

18.6689, 0.2674, 0.2888

CSS Examples

Text

The CSS property to change the color of the text to Yxy 20.3231, 0.2158, 0.2287 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(71, 128, 186)` looks like.

```
.text, #text, p{  
    color:rgb(71, 128, 186)  
}
```

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(71, 128, 186) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 128, 186) }
```

Border

The CSS property to change the border of an element to Yxy 20.3231, 0.2158, 0.2287 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(71, 128, 186) }
```

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

```
.border{ border-color:rgb(71, 128, 186) }
```

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

Here you see how a box with a 4 pixel `rgb(71, 128, 186)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 128, 186); -webkit-box-  
shadow:4px 4px 4px 4px rgb(71, 128, 186);  
box-shadow:4px 4px 4px 4px rgb(71, 128,  
186) }
```


Background

The CSS property to change the background color of an element to Yxy 20.3231, 0.2158, 0.2287 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 128, 186) }
```

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

```
.background{ background-color: rgb(71, 128,  
186) }
```

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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