

Converting Colors

$Y_{xy}(16.9565, 0.2170, 0.2310)$

Have a look what the booklet for
Yxy(16.9565, 0.2170, 0.2310)
contains.

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Color

Yxy(16.9830, 0.2169, 0.2315)

Conversions

Conversions Part 1

Format	Color
Hex	4176AA
RGB	65, 118, 170
RGB Percent	25%, 46%, 67%
CMY	0.7452, 0.5372, 0.3334
CMYK	0.62, 0.31, 0.00, 0.33
HSL	210°, 45%, 46%
HSV	210°, 62%, 67%
XYZ	15.9119, 16.9830, 40.4658
YIQ	108.0810, -48.2800, 4.9360

Conversions

Conversions Part 2

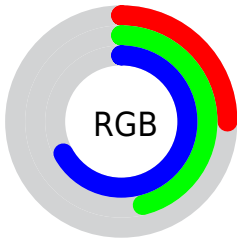
Format	Color
R _Y B	65, 100, 170
Decimal	4290218
CIE Lab	48.24, -1.32, -33.04
CIE LCh	48, 33.064, 267.711
Yxy	16.9830, 0.2169, 0.2315
Android (android.graphics.Color)	4282480298 (0xFF4176AA)
YUV	108.0810, 30.5261, -37.7820
Hunter-Lab	41.2104, -3.1969, -29.3713

Details

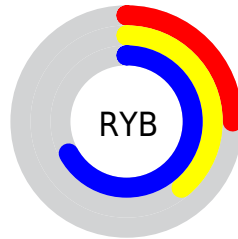
The Yxy color **16.9830, 0.2169, 0.2315** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **21.6394, 0.4470, 0.4049**, and the grayscale version is **14.9417, 0.3127, 0.3290**.

A 20% lighter version of the original color is **38.3780, 0.2377, 0.2526**, and **5.6647, 0.1882, 0.1973** is the 20% darker color. If you saturate the color by 10%, you get **14.5940, 0.2038, 0.2124**, and if you desaturate by 10%, it is **19.7246, 0.2314, 0.2502**.

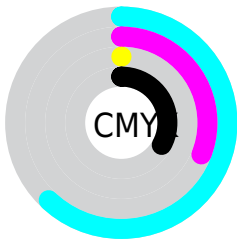
Distribution



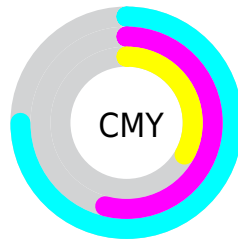
- Red (25%)
- Green (46%)
- Blue (67%)



- Red (25%)
- Yellow (39%)
- Blue (67%)



- Cyan (62%)
- Magenta (31%)
- Yellow (0%)
- Black (33%)



- Cyan (75%)
- Magenta (54%)
- Yellow (33%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 16.9830, 0.2169, 0.2315 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 16.9830, 0.2169, 0.2315 by changing the saturation by 10% instead.

■ 16.9830, 0.2169,
0.2315

■ 16.9830, 0.2169,
0.2315

■ 235.0744, 0.2706,
0.2864

■ 10.2224, 0.2017,
0.2158

■ 38.2965, 0.2378,
0.2529

■ 5.5466, 0.1812,
0.1947

■ 53.6182, 0.2452,
0.2605

■ 2.5714, 0.1528,
0.1651

■ 72.5624, 0.2513,
0.2668

■ 0.9123, 0.1120,
0.1225

■ 95.5135, 0.2564,
0.2720

■ 0.0000, 0.0000,
0.0000

■ 122.8558, 0.2608,
0.2764

154.9738, 0.2645,

0.2802

192.2519, 0.2677,
0.2835

■ 16.9830, 0.2169,
0.2315

■ 16.9830, 0.2169,
0.2315

■ 14.5940, 0.2038,
0.2124

■ 19.7246, 0.2314,
0.2502

■ 12.5349, 0.1927,
0.1934

■ 22.8356, 0.2469,
0.2680

■ 10.7824, 0.1839,
0.1750

■ 26.3336, 0.2629,
0.2848

■ 9.5330, 0.1779,
0.1605

■ 30.2345, 0.2790,
0.3002

■ 34.5529, 0.2948,
0.3143

■ 39.3028, 0.3101,
0.3269

■ 44.4974, 0.3247,
0.3382

■ 50.1492, 0.3385,
0.3482

■ 56.2702, 0.3514,
0.3570

Harmonies

Analogous

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



16.9830, 0.1990, 0.2552



16.9830, 0.2169, 0.2315



16.9830, 0.2589, 0.2316

Triad

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



16.9830, 0.2169, 0.2315



16.9830, 0.4311, 0.3355



16.9830, 0.2955, 0.4278

Complementary

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



16.9830, 0.2169, 0.2315



21.6394, 0.4470, 0.4049

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.



16.9830, 0.3584, 0.4476



16.9830, 0.2169, 0.2315



16.9830, 0.4402, 0.3847

Square

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



16.9830, 0.2169, 0.2315



16.9830, 0.3851, 0.2889



16.9830, 0.4120, 0.4273



16.9830, 0.2405, 0.3704

Rectangle

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



16.9830, 0.2169, 0.2315



16.9830, 0.2981, 0.2433



16.9830, 0.4120, 0.4273



16.9830, 0.3164, 0.4394

Sweetspot

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



16.9836, 0.2169, 0.2315



56.6993, 0.2829, 0.3038



31.1244, 0.2726, 0.4309



12.1761, 0.2784, 0.2997



86.8899, 0.3127, 0.3290



16.2647, 0.3127, 0.3290

Same Dimension

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



16.9836, 0.2169, 0.2315



25.0837, 0.1996, 0.2056



8.0064, 0.1956, 0.1371



7.9032, 0.2987, 0.3175



7.1250, 0.1784, 0.1623



0.2756, 0.1952, 0.2225

Inverse Universe

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



13.6309, 0.4026, 0.2525



20.4107, 0.4337, 0.2435



37.0215, 0.3993, 0.4682



7.6031, 0.3210, 0.3177



6.7903, 0.4902, 0.2474



0.1755, 0.4205, 0.2090

Previews

White Background



This preview shows how the Yxy color 16.9830, 0.2169, 0.2315 looks on a white 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

Black Background



This preview shows how the Yxy color 16.9830, 0.2169, 0.2315 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

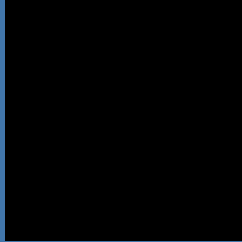
Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

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

Yxy 16.9830, 0.2169, 0.2315

Background



This preview shows how black text looks on a background with the Yxy color 16.9830, 0.2169, 0.2315.

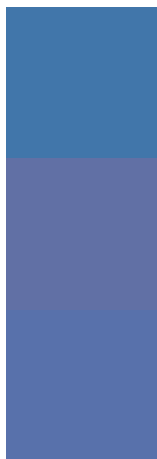


This preview shows how white text looks on a background with the Yxy color 16.9830, 0.2169, 0.2315.

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

16.9830, 0.2169, 0.2315

Protanopia

16.8463, 0.2423, 0.2330

Deuteranopia

16.8252, 0.2305, 0.2244



Tritanopia

17.0449, 0.2329, 0.3071

Trichromacy



Original Color

16.9830, 0.2169, 0.2315

Protanomaly

16.7559, 0.2312, 0.2314

Deuteranomaly

16.9072, 0.2251, 0.2266

Tritanomaly

16.8415, 0.2259, 0.2752

Monochromacy



Original Color

16.9830, 0.2169, 0.2315

Achromatopsia

14.9960, 0.3127, 0.3290

Achromatomaly

15.5023, 0.2673, 0.2897

CSS Examples

Text

The CSS property to change the color of the text to Yxy 16.9830, 0.2169, 0.2315 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(65, 118, 170)` looks like.

```
.text, #text, p{  
    color:rgb(65, 118, 170)  
}
```

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(65, 118, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(65, 118, 170) }
```

Border

The CSS property to change the border of an element to Yxy 16.9830, 0.2169, 0.2315 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(65, 118, 170) }
```

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

```
.border{ border-color:rgb(65, 118, 170) }
```

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

Here you see how a box with a 4 pixel `rgb(65, 118, 170)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(65, 118, 170); -webkit-box-  
shadow:4px 4px 4px 4px rgb(65, 118, 170);  
box-shadow:4px 4px 4px 4px rgb(65, 118,  
170) }
```


Background

The CSS property to change the background color of an element to Yxy 16.9830, 0.2169, 0.2315 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(65, 118, 170) }
```

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

```
.background{ background-color: rgb(65, 118,  
170) }
```

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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