

Converting Colors

$Yxy(16.8861, 0.1998, 0.2237)$

Have a look what the booklet for
Yxy(16.8861, 0.1998, 0.2237)
contains.

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Color

Yxy(16.8287, 0.1997, 0.2231)

Conversions

Conversions Part 1

Format	Color
Hex	1D78B0
RGB	29, 120, 176
RGB Percent	11%, 47%, 69%
CMY	0.8858, 0.5294, 0.3097
CMYK	0.83, 0.32, 0.00, 0.31
HSL	203°, 72%, 40%
HSV	203°, 83%, 69%
XYZ	15.0636, 16.8287, 43.5389
YIQ	99.1750, -72.2120, -1.8760

Conversions

Conversions Part 2

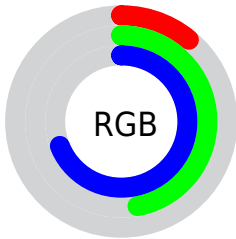
Format	Color
RYP	29, 85, 176
Decimal	1931440
CIELab	48.04, -5.47, -36.93
CIElCh	48, 37.328, 261.579
Yxy	16.8287, 0.1997, 0.2231
Android (android.graphics.Color)	4280121520 (0xFF1D78B0)
YUV	99.1750, 37.8747, -61.5435
Hunter-Lab	41.0228, -6.2445, -34.2105

Details

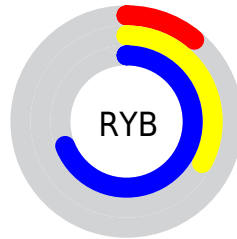
The Yxy color **16.8287, 0.1997, 0.2231** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **15.8440, 0.5303, 0.3928**, and the grayscale version is **12.4496, 0.3127, 0.3290**.

A 20% lighter version of the original color is **38.0406, 0.2238, 0.2463**, and **6.0648, 0.1867, 0.1922** is the 20% darker color. If you saturate the color by 10%, you get **15.0823, 0.1926, 0.2087**, and if you desaturate by 10%, it is **18.8360, 0.2089, 0.2377**.

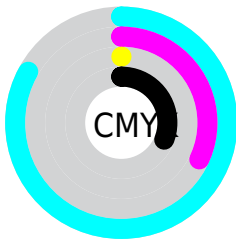
Distribution



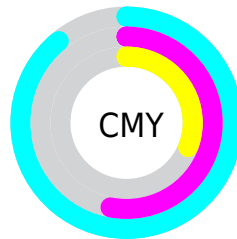
- Red (11%)
- Green (47%)
- Blue (69%)



- Red (11%)
- Yellow (33%)
- Blue (69%)



- Cyan (83%)
- Magenta (32%)
- Yellow (0%)
- Black (31%)



- Cyan (89%)
- Magenta (53%)
- Yellow (31%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 16.8287, 0.1997, 0.2231 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 16.8287, 0.1997, 0.2231 by changing the saturation by 10% instead.

■ 16.8287, 0.1997,
0.2231

■ 16.8287, 0.1997,
0.2231

■ 234.1833, 0.2622,
0.2828

■ 10.1124, 0.1825,
0.2062

■ 38.0310, 0.2237,
0.2463

■ 5.4736, 0.1599,
0.1836

■ 53.2859, 0.2323,
0.2546

■ 2.5277, 0.1294,
0.1525

■ 72.1557, 0.2395,
0.2614

■ 0.8905, 0.0874,
0.1092

■ 95.0249, 0.2455,
0.2671

■ 0.0000, 0.0000,
0.0000

■ 122.2778, 0.2506,
0.2719

■ 154.2990, 0.2550,

0.2761

191.4726, 0.2588,
0.2797

■ 16.8287, 0.1997,
0.2231

■ 16.8287, 0.1997,
0.2231

■ 15.0823, 0.1926,
0.2087

■ 18.8360, 0.2089,
0.2377

■ 14.0470, 0.1887,
0.1994

■ 21.1267, 0.2200,
0.2523

■ 23.7215, 0.2327,
0.2665

■ 26.6384, 0.2467,
0.2802

■ 29.8937, 0.2615,
0.2930

■ 33.5021, 0.2768,
0.3050

■ 37.4776, 0.2922,
0.3159

■ 41.8331, 0.3075,
0.3258

■ 46.5809, 0.3224,
0.3347

Harmonies

Analogous

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



16.8287, 0.1857, 0.2542



16.8287, 0.1997, 0.2231



16.8287, 0.2405, 0.2187

Triad

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



16.8287, 0.1997, 0.2231



16.8287, 0.4392, 0.3239



16.8287, 0.3065, 0.4513

Complementary

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



16.8287, 0.1997, 0.2231



15.8440, 0.5303, 0.3928

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.



16.8287, 0.3765, 0.4616



16.8287, 0.1997, 0.2231



16.8287, 0.4580, 0.3783

Square

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



16.8287, 0.1997, 0.2231



16.8287, 0.3801, 0.2744



16.8287, 0.4328, 0.4293



16.8287, 0.2420, 0.3917

Rectangle

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



16.8287, 0.1997, 0.2231



16.8287, 0.2814, 0.2288



16.8287, 0.4328, 0.4293



16.8287, 0.3302, 0.4606

Sweetspot

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



16.8293, 0.1997, 0.2231



59.3942, 0.2737, 0.3027



31.9462, 0.2795, 0.5073



12.3797, 0.2685, 0.2986



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.



16.8293, 0.1997, 0.2231



25.0192, 0.1881, 0.1971



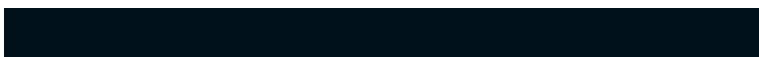
5.5714, 0.1665, 0.0983



9.0761, 0.2986, 0.3201



10.4196, 0.1892, 0.2009



0.4363, 0.2002, 0.2407

Inverse Universe

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



11.4734, 0.4177, 0.2204



18.6922, 0.4486, 0.2245



33.2451, 0.4340, 0.4794



8.5907, 0.3194, 0.3150



7.5920, 0.4442, 0.2221



0.2498, 0.4016, 0.1986

Previews

White Background



This preview shows how the Yxy color 16.8287, 0.1997, 0.2231 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 16.8287, 0.1997, 0.2231 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

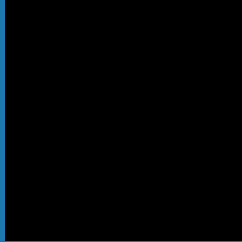
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 16.8287, 0.1997, 0.2231

Background



This preview shows how black text looks on a background with the Yxy color 16.8287, 0.1997, 0.2231.



This preview shows how white text looks on a background with the Yxy color 16.8287, 0.1997, 0.2231.

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

16.8287, 0.1997, 0.2231

Protanopia

16.8326, 0.2366, 0.2267

Deuteranopia

16.6869, 0.2193, 0.2131



Tritanopia

16.6993, 0.2185, 0.3065

Trichromacy



Original Color

16.8287, 0.1997, 0.2231

Protanomaly

16.5421, 0.2176, 0.2235

Deuteranomaly

16.6572, 0.2099, 0.2171

Tritanomaly

16.7208, 0.2104, 0.2720

Monochromacy



Original Color

16.8287, 0.1997, 0.2231

Achromatopsia

12.4772, 0.3127, 0.3290

Achromatomaly

13.5035, 0.2509, 0.2844

CSS Examples

Text

The CSS property to change the color of the text to Yxy 16.8287, 0.1997, 0.2231 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(29, 120, 176)` looks like.

```
.text, #text, p{  
    color:rgb(29, 120, 176)  
}
```

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(29, 120, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(29, 120, 176) }
```

Border

The CSS property to change the border of an element to Yxy 16.8287, 0.1997, 0.2231 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(29, 120, 176) }
```

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

```
.border{ border-color:rgb(29, 120, 176) }
```

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

Here you see how a box with a 4 pixel `rgb(29, 120, 176)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(29, 120, 176); -webkit-box-  
shadow:4px 4px 4px 4px rgb(29, 120, 176);  
box-shadow:4px 4px 4px 4px rgb(29, 120,  
176) }
```


Background

The CSS property to change the background color of an element to Yxy 16.8287, 0.1997, 0.2231 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(29, 120, 176) }
```

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

```
.background{ background-color: rgb(29, 120,  
176) }
```

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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