

Converting Colors

$Y_{xy}(12.9847, 0.1257, 0.2043)$

Have a look what the booklet for
Yxy(12.9847, 0.1257, 0.2043)
contains.

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Color

Yxy(16.2888, 0.1948, 0.2214)

Conversions

Conversions Part 1

Format	Color
Hex	0077AF
RGB	0, 119, 175
RGB Percent	0%, 47%, 69%
CMY	1.0000, 0.5333, 0.3137
CMYK	1.00, 0.32, 0.00, 0.31
HSL	199°, 100%, 34%
HSV	199°, 100%, 69%
XYZ	14.3318, 16.2888, 42.9512
YIQ	89.8030, -88.9000, -7.8120

Conversions

Conversions Part 2

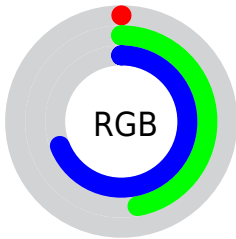
Format	Color
RYB	0, 71, 175
Decimal	30639
CIELab	47.35, -6.94, -37.45
CIELCh	47, 38.090, 259.506
Yxy	16.2888, 0.1948, 0.2214
Android (android.graphics.Color)	4278220719 (0xFF0077AF)
YUV	89.8030, 42.0021, -78.7572
Hunter-Lab	40.3594, -7.2428, -34.8460

Details

The Yxy color **16.2888, 0.1948, 0.2214** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **11.9436, 0.5905, 0.3693**, and the grayscale version is **10.0990, 0.3127, 0.3290**.

A 20% lighter version of the original color is **37.1195, 0.2199, 0.2451**, and **5.9116, 0.1864, 0.1911** is the 20% darker color. If you saturate the color by 10%, you get **16.2917, 0.1948, 0.2214**, and if you desaturate by 10%, it is **17.7882, 0.2002, 0.2333**.

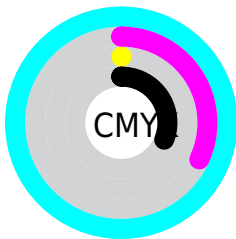
Distribution



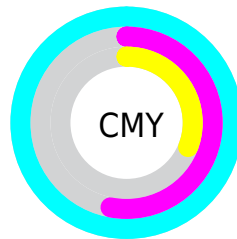
- Red (0%)
- Green (47%)
- Blue (69%)



- Red (0%)
- Yellow (28%)
- Blue (69%)



- Cyan (100%)
- Magenta (32%)
- Yellow (0%)
- Black (31%)



- Cyan (100%)
- Magenta (53%)
- Yellow (31%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 16.2888, 0.1948, 0.2214 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 16.2888, 0.1948, 0.2214 by changing the saturation by 10% instead.

■ 16.2888, 0.1948,
0.2214

■ 16.2888, 0.1948,
0.2214

■ 231.0399, 0.2601,
0.2824

■ 9.7287, 0.1769,
0.2040

■ 37.0989, 0.2198,
0.2452

■ 5.2195, 0.1534,
0.1808

■ 52.1176, 0.2289,
0.2537

■ 2.3766, 0.1219,
0.1488

■ 70.7248, 0.2363,
0.2606

■ 0.8138, 0.0774,
0.1043

■ 93.3047, 0.2426,
0.2665

■ 0.0000, 0.0000,
0.0000

■ 120.2418, 0.2480,
0.2714

■ 151.9204, 0.2526,

0.2756

188.7250, 0.2565,
0.2792

■ 16.2888, 0.1948,
0.2214

■ 16.2888, 0.1948,
0.2214

■ 16.2917, 0.1948,
0.2214

■ 17.7882, 0.2002,
0.2333

■ 19.4742, 0.2072,
0.2454

■ 21.3940, 0.2161,
0.2575

■ 23.5688, 0.2269,
0.2694

■ 26.0169, 0.2393,
0.2810

■ 28.7544, 0.2529,
0.2921

■ 31.7959, 0.2673,
0.3025

■ 35.1549, 0.2823,
0.3121

■ 38.8440, 0.2975,
0.3210

Harmonies

Analogous

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



16.2888, 0.1824, 0.2551



16.2888, 0.1948, 0.2214



16.2888, 0.2346, 0.2153

Triad

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



16.2888, 0.1948, 0.2214



16.2888, 0.4402, 0.3197



16.2888, 0.3110, 0.4581

Complementary

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



16.2888, 0.1948, 0.2214



11.9436, 0.5905, 0.3693

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.



16.2888, 0.3826, 0.4644



16.2888, 0.1948, 0.2214



16.2888, 0.4626, 0.3753

Square

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



16.2888, 0.1948, 0.2214



16.2888, 0.3770, 0.2697



16.2888, 0.4391, 0.4285



16.2888, 0.2438, 0.3992

Rectangle

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



16.2888, 0.1948, 0.2214



16.2888, 0.2755, 0.2246



16.2888, 0.4391, 0.4285



16.2888, 0.3354, 0.4663

Sweetspot

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



16.2917, 0.1948, 0.2214



56.6416, 0.2666, 0.3020



30.9439, 0.2875, 0.5548



12.0767, 0.2605, 0.2977



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.



16.2917, 0.1948, 0.2214



28.7636, 0.1943, 0.2194



4.1332, 0.1549, 0.0775



8.6333, 0.2986, 0.3216



11.7801, 0.1952, 0.2228



0.4207, 0.2052, 0.2587

Inverse Universe

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



10.4473, 0.4217, 0.2097



18.6669, 0.4238, 0.2109



28.7377, 0.4557, 0.4764



8.1038, 0.3184, 0.3137



7.4923, 0.4203, 0.2089



0.2178, 0.3836, 0.1887

Previews

White Background



This preview shows how the Yxy color 16.2888, 0.1948, 0.2214 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 16.2888, 0.1948, 0.2214 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

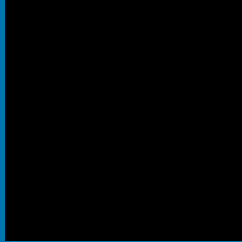
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 16.2888, 0.1948, 0.2214

Background



This preview shows how black text looks on a background with the Yxy color 16.2888, 0.1948, 0.2214.



This preview shows how white text looks on a background with the Yxy color 16.2888, 0.1948, 0.2214.

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

16.2888, 0.1948, 0.2214

Protanopia

16.2172, 0.2357, 0.2253

Deuteranopia

16.3404, 0.2181, 0.2122

Trichromacy



Original Color

16.2888, 0.1948, 0.2214

Protanomaly

15.6423, 0.2112, 0.2207

Deuteranomaly

16.0490, 0.2041, 0.2150

Monochromacy



Original Color

16.2888, 0.1948, 0.2214

Achromatopsia

10.2242, 0.3127, 0.3290

Achromatomaly

11.5577, 0.2379, 0.2808

CSS Examples

Text

The CSS property to change the color of the text to Yxy 16.2888, 0.1948, 0.2214 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(0, 119, 175)` looks like.

```
.text, #text, p{  
    color:rgb(0, 119, 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(0, 119, 175) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 119, 175) }
```

Border

The CSS property to change the border of an element to Yxy 16.2888, 0.1948, 0.2214 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(0, 119, 175) }
```

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

```
.border{ border-color:rgb(0, 119, 175) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 119, 175)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 119, 175); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 119, 175);  
box-shadow:4px 4px 4px 4px rgb(0, 119,  
175) }
```

Background

The CSS property to change the background color of an element to Yxy 16.2888, 0.1948, 0.2214 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 119, 175) }
```

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

```
.background{ background-color: rgb(0, 119,  
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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