

Converting Colors

$Yxy(14.4024, 0.1540, 0.2072)$

Have a look what the booklet for
Yxy(14.4024, 0.1540, 0.2072)
contains.

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Color

Yxy(16.4080, 0.1937, 0.2172)

Conversions

Conversions Part 1

Format	Color
Hex	0077B2
RGB	0, 119, 178
RGB Percent	0%, 47%, 70%
CMY	0.9990, 0.5333, 0.3021
CMYK	1.00, 0.33, 0.00, 0.30
HSL	200°, 100%, 35%
HSV	200°, 100%, 70%
XYZ	14.6327, 16.4080, 44.5025
YIQ	90.1450, -89.8630, -6.8790

Conversions

Conversions Part 2

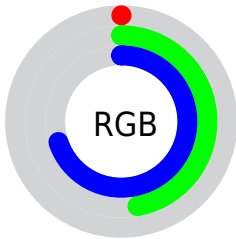
Format	Color
RYB	0, 71, 178
Decimal	30642
CIELab	47.51, -5.75, -38.93
CIELCh	48, 39.355, 261.596
Yxy	16.4080, 0.1937, 0.2172
Android (android.graphics.Color)	4278220722 (0xFF0077B2)
YUV	90.1450, 43.3125, -79.0572
Hunter-Lab	40.5068, -6.4053, -36.7839

Details

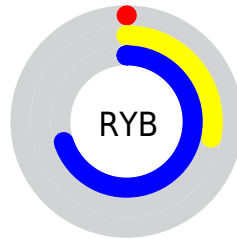
The Yxy color **16.4080, 0.1937, 0.2172** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **12.6137, 0.5873, 0.3717**, and the grayscale version is **10.1914, 0.3127, 0.3290**.

A 20% lighter version of the original color is **37.3416, 0.2190, 0.2418**, and **5.9871, 0.1850, 0.1860** is the 20% darker color. If you saturate the color by 10%, you get **16.3875, 0.1936, 0.2170**, and if you desaturate by 10%, it is **17.9857, 0.1992, 0.2296**.

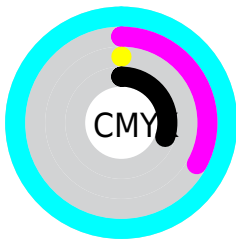
Distribution



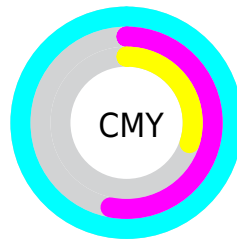
- Red (0%)
- Green (47%)
- Blue (70%)



- Red (0%)
- Yellow (28%)
- Blue (70%)



- Cyan (100%)
- Magenta (33%)
- Yellow (0%)
- Black (30%)



- Cyan (100%)
- Magenta (53%)
- Yellow (30%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 16.4080, 0.1937, 0.2172 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 16.4080, 0.1937, 0.2172 by changing the saturation by 10% instead.

■ 16.4080, 0.1937,
0.2172

■ 16.4080, 0.1937,
0.2172

■ 231.7373, 0.2594,
0.2802

■ 9.8133, 0.1758,
0.1995

■ 37.3051, 0.2188,
0.2417

■ 5.2754, 0.1523,
0.1760

■ 52.3763, 0.2279,
0.2504

■ 2.4097, 0.1211,
0.1439

■ 71.0417, 0.2355,
0.2576

■ 0.8309, 0.0782,
0.1000

■ 93.6859, 0.2418,
0.2636

■ 0.0000, 0.0000,
0.0000

■ 120.6932, 0.2472,
0.2687

■ 152.4479, 0.2518,

0.2731

189.3345, 0.2559,
0.2768

■ 16.4080, 0.1937,
0.2172

■ 16.4080, 0.1937,
0.2172

■ 16.3875, 0.1936,
0.2170

■ 17.9857, 0.1992,
0.2296

■ 19.7676, 0.2063,
0.2421

■ 21.7987, 0.2155,
0.2547

■ 24.1015, 0.2265,
0.2672

■ 26.6950, 0.2390,
0.2792

■ 29.5962, 0.2528,
0.2908

■ 32.8205, 0.2674,
0.3016

■ 36.3820, 0.2825,
0.3116

■ 40.2940, 0.2977,
0.3208

Harmonies

Analogous

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



16.4080, 0.1790, 0.2494



16.4080, 0.1937, 0.2172



16.4080, 0.2363, 0.2130

Triad

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



16.4080, 0.1937, 0.2172



16.4080, 0.4473, 0.3230



16.4080, 0.3054, 0.4599

Complementary

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



16.4080, 0.1937, 0.2172



12.6137, 0.5873, 0.3717

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.



16.4080, 0.3793, 0.4698



16.4080, 0.1937, 0.2172



16.4080, 0.4668, 0.3799

Square

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



16.4080, 0.1937, 0.2172



16.4080, 0.3843, 0.2713



16.4080, 0.4393, 0.4342



16.4080, 0.2375, 0.3959

Rectangle

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



16.4080, 0.1937, 0.2172



16.4080, 0.2793, 0.2235



16.4080, 0.4393, 0.4342



16.4080, 0.3304, 0.4697

Sweetspot

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



16.4085, 0.1937, 0.2172



59.1321, 0.2664, 0.3009



32.1237, 0.2875, 0.5548



12.5479, 0.2602, 0.2965



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.



16.4085, 0.1937, 0.2172



29.2876, 0.1931, 0.2150



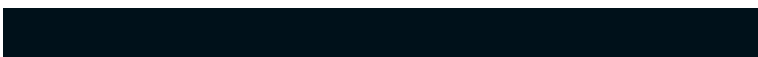
4.2933, 0.1549, 0.0776



9.1469, 0.2986, 0.3213



11.8478, 0.1940, 0.2184



0.4744, 0.2036, 0.2529

Inverse Universe

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



10.7994, 0.4262, 0.2123



19.5323, 0.4287, 0.2135



29.8337, 0.4557, 0.4763



8.5978, 0.3186, 0.3139



7.7362, 0.4249, 0.2114



0.2537, 0.3894, 0.1919

Previews

White Background



This preview shows how the Yxy color 16.4080, 0.1937, 0.2172 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 16.4080, 0.1937, 0.2172 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

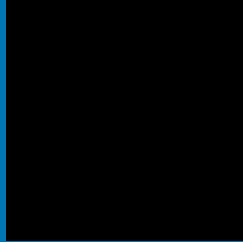
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 16.4080, 0.1937, 0.2172

Background



This preview shows how black text looks on a background with the Yxy color 16.4080, 0.1937, 0.2172.

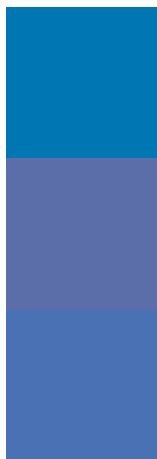


This preview shows how white text looks on a background with the Yxy color 16.4080, 0.1937, 0.2172.

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

16.4080, 0.1937, 0.2172

Protanopia

16.2783, 0.2327, 0.2209

Deuteranopia

16.5614, 0.2147, 0.2096



Tritanopia

16.3885, 0.2190, 0.3085

Trichromacy



Original Color

16.4080, 0.1937, 0.2172

Protanomaly

15.7269, 0.2090, 0.2164

Deuteranomaly

16.1205, 0.2018, 0.2107

Tritanomaly

16.3679, 0.2087, 0.2714

Monochromacy



Original Color

16.4080, 0.1937, 0.2172

Achromatopsia

10.2242, 0.3127, 0.3290

Achromatomaly

11.5824, 0.2371, 0.2787

CSS Examples

Text

The CSS property to change the color of the text to Yxy 16.4080, 0.1937, 0.2172 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, 178)` looks like.

```
.text, #text, p{  
  color:rgb(0, 119, 178)  
}
```

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, 178) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 119, 178) }
```

Border

The CSS property to change the border of an element to Yxy 16.4080, 0.1937, 0.2172 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, 178) }
```

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

```
.border{ border-color:rgb(0, 119, 178) }
```

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, 178)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 119, 178); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 119, 178);  
box-shadow:4px 4px 4px 4px rgb(0, 119,  
178) }
```


Background

The CSS property to change the background color of an element to Yxy 16.4080, 0.1937, 0.2172 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, 178) }
```

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

```
.background{ background-color: rgb(0, 119,  
178) }
```

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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