

Converting Colors

$Y_{xy}(10.5535, 0.1205, 0.1394)$

Have a look what the booklet for
Yxy(10.5535, 0.1205, 0.1394)
contains.

Yxy(13.6729, 0.1779, 0.1602)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(13.6729, 0.1779, 0.1602)

Conversions

Conversions Part 1

Format	Color
Hex	0166C8
RGB	1, 102, 200
RGB Percent	0%, 40%, 78%
CMY	0.9976, 0.6001, 0.2156
CMYK	1.00, 0.49, 0.00, 0.22
HSL	210°, 99%, 39%
HSV	210°, 100%, 78%
XYZ	15.1836, 13.6729, 56.4925
YIQ	82.9730, -91.6540, 9.0660

Conversions

Conversions Part 2

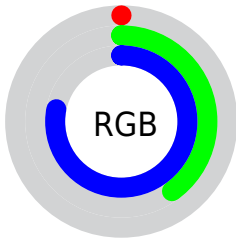
Format	Color
RYB	1, 68, 200
Decimal	91848
CIELab	43.76, 13.71, -57.67
CIELCh	44, 59.282, 283.374
Yxy	13.6729, 0.1779, 0.1602
Android (android.graphics.Color)	4278281928 (0xFF0166C8)
YUV	82.9730, 57.6943, -71.8903
Hunter-Lab	36.9769, 8.5867, -64.6981

Details

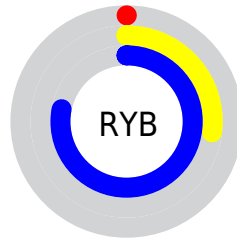
The Yxy color **13.6729, 0.1779, 0.1602** is a dark color, and the websafe version is hex **0066CC**. The color can be described as dark washed azure. A complement of this color would be **21.1420, 0.5433, 0.4065**, and the grayscale version is **8.5125, 0.3127, 0.3290**.

A 20% lighter version of the original color is **32.2731, 0.2072, 0.1949**, and **4.8727, 0.1682, 0.1256** is the 20% darker color. If you saturate the color by 10%, you get **13.6096, 0.1777, 0.1597**, and if you desaturate by 10%, it is **15.8731, 0.1850, 0.1779**.

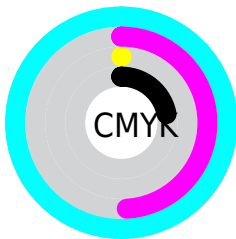
Distribution



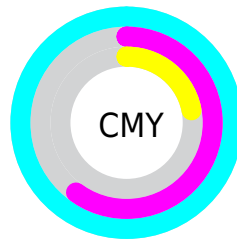
- Red (0%)
- Green (40%)
- Blue (78%)



- Red (0%)
- Yellow (27%)
- Blue (78%)



- Cyan (100%)
- Magenta (49%)
- Yellow (0%)
- Black (22%)



- Cyan (100%)
- Magenta (60%)
- Yellow (22%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 13.6729, 0.1779, 0.1602 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 13.6729, 0.1779, 0.1602 by changing the saturation by 10% instead.

■ 13.6729, 0.1779,
0.1602

■ 13.6729, 0.1779,
0.1602

■ 215.1863, 0.2527,
0.2496

■ 7.8935, 0.1582,
0.1382

■ 32.5075, 0.2062,
0.1930

■ 4.0269, 0.1331,
0.1112

■ 46.3315, 0.2166,
0.2053

■ 1.6886, 0.1013,
0.0786

■ 63.6058, 0.2252,
0.2157

■ 0.4163, 0.0627,
0.0357

■ 84.7149, 0.2325,
0.2245

■ 0.0000, 0.0000,
0.0000

■ 110.0431, 0.2387,
0.2321

■ 139.9748, 0.2440,

0.2387

174.8944, 0.2486,
0.2445

■ 13.6729, 0.1779,
0.1602

■ 13.6729, 0.1779,
0.1602

■ 13.6096, 0.1777,
0.1597

■ 15.8731, 0.1850,
0.1779

■ 18.4670, 0.1941,
0.1965

■ 21.5131, 0.2056,
0.2157

■ 25.0465, 0.2190,
0.2348

■ 29.0975, 0.2338,
0.2535

■ 33.6931, 0.2496,
0.2712

■ 38.8584, 0.2658,
0.2878

■ 44.6163, 0.2820,
0.3031

■ 50.9885, 0.2978,
0.3169

Harmonies

Analogous

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



13.6729, 0.1327, 0.1712



13.6729, 0.1779, 0.1602



13.6729, 0.2644, 0.1791

Triad

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



13.6729, 0.1779, 0.1602



13.6729, 0.5492, 0.3633



13.6729, 0.2159, 0.4796

Complementary

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



13.6729, 0.1779, 0.1602



21.1420, 0.5433, 0.4065

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.



13.6729, 0.3184, 0.5613



13.6729, 0.1779, 0.1602



13.6729, 0.5117, 0.4446

Square

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



13.6729, 0.1779, 0.1602



13.6729, 0.5048, 0.2897



13.6729, 0.4246, 0.5264



13.6729, 0.1467, 0.3302

Rectangle

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



13.6729, 0.1779, 0.1602



13.6729, 0.3447, 0.2069



13.6729, 0.4246, 0.5264



13.6729, 0.2479, 0.5205

Sweetspot

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



13.6733, 0.1779, 0.1602



66.5696, 0.2646, 0.2867



42.1833, 0.2741, 0.5067



13.4107, 0.2576, 0.2797



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

Same Dimension

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



13.6733, 0.1779, 0.1602



23.0851, 0.1770, 0.1573



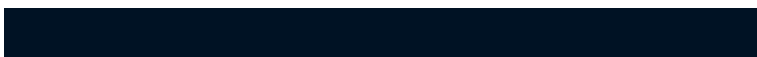
4.2605, 0.1504, 0.0612



11.1638, 0.2983, 0.3174



8.8317, 0.1784, 0.1621



0.5629, 0.1888, 0.1995

Inverse Universe

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



13.2540, 0.4928, 0.2490



22.8616, 0.4965, 0.2509



52.0765, 0.4222, 0.5028



10.7254, 0.3212, 0.3173



8.4316, 0.4905, 0.2476



0.4138, 0.4458, 0.2230

Previews

White Background



This preview shows how the Yxy color 13.6729, 0.1779, 0.1602 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 13.6729, 0.1779, 0.1602 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

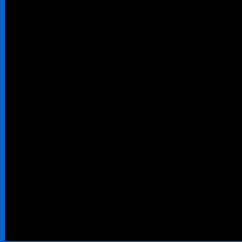
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 13.6729, 0.1779, 0.1602

Background



This preview shows how black text looks on a background with the Yxy color 13.6729, 0.1779, 0.1602.



This preview shows how white text looks on a background with the Yxy color 13.6729, 0.1779, 0.1602.

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

13.6793, 0.1780, 0.1603

Protanopia

13.7959, 0.1874, 0.1624

Deuteranopia

13.5638, 0.1839, 0.1820



Tritanopia

13.6666, 0.2199, 0.3117

Trichromacy



Original Color

13.6793, 0.1780, 0.1603

Protanomaly

13.7069, 0.1822, 0.1611

Deuteranomaly

13.6183, 0.1816, 0.1736

Tritanomaly

13.3539, 0.2004, 0.2416

Monochromacy



Original Color

13.6793, 0.1780, 0.1603

Achromatopsia

8.6500, 0.3127, 0.3290

Achromatomaly

9.5756, 0.2246, 0.2419

CSS Examples

Text

The CSS property to change the color of the text to Yxy 13.6729, 0.1779, 0.1602 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(1, 102, 200)` looks like.

```
.text, #text, p{  
    color:rgb(1, 102, 200)  
}
```

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(1, 102, 200) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 102, 200) }
```

Border

The CSS property to change the border of an element to Yxy 13.6729, 0.1779, 0.1602 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(1, 102, 200) }
```

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

```
.border{ border-color:rgb(1, 102, 200) }
```

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

Here you see how a box with a 4 pixel rgb(1, 102, 200) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 102, 200); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 102, 200);  
box-shadow:4px 4px 4px 4px rgb(1, 102,  
200) }
```


Background

The CSS property to change the background color of an element to Yxy 13.6729, 0.1779, 0.1602 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 102, 200) }
```

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

```
.background{ background-color: rgb(1, 102,  
200) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor