

Converting Colors

$Y_{xy}(12.9720, 0.1674, 0.1235)$

Have a look what the booklet for
Yxy(12.9720, 0.1674, 0.1235)
contains.

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Color

Yxy(13.0282, 0.1678, 0.1242)

Conversions

Conversions Part 1

Format	Color
Hex	005BE3
RGB	0, 91, 227
RGB Percent	0%, 36%, 89%
CMY	1.0000, 0.6431, 0.1098
CMYK	1.00, 0.60, 0.00, 0.11
HSL	216°, 100%, 45%
HSV	216°, 100%, 89%
XYZ	17.6017, 13.0282, 74.2670
YIQ	79.2950, -97.8920, 23.0040

Conversions

Conversions Part 2

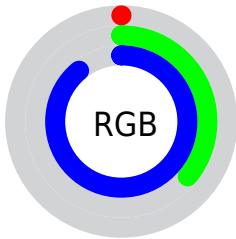
Format	Color
RYB	0, 65, 227
Decimal	23523
CIELab	42.81, 31.53, -74.66
CIELCh	43, 81.046, 292.891
Yxy	13.0282, 0.1678, 0.1242
Android (android.graphics.Color)	4278213603 (0xFF005BE3)
YUV	79.2950, 72.8186, -69.5417
Hunter-Lab	36.0946, 23.8808, -96.7269

Details

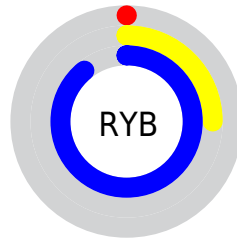
The Yxy color **13.0282, 0.1678, 0.1242** is a dark color, and the websafe version is hex **0066FF**. The color can be described as dark washed blue. A complement of this color would be **33.9385, 0.5135, 0.4305**, and the grayscale version is **7.7528, 0.3127, 0.3290**.

A 20% lighter version of the original color is **29.0403, 0.2075, 0.1805**, and **4.9353, 0.1598, 0.0954** is the 20% darker color. If you saturate the color by 10%, you get **13.0320, 0.1679, 0.1242**, and if you desaturate by 10%, it is **15.7507, 0.1753, 0.1436**.

Distribution



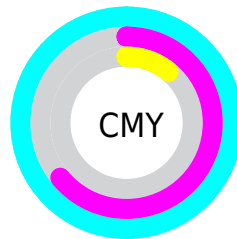
- Red (0%)
- Green (36%)
- Blue (89%)



- Red (0%)
- Yellow (25%)
- Blue (89%)



- Cyan (100%)
- Magenta (60%)
- Yellow (0%)
- Black (11%)





- Cyan (100%)
- Magenta (64%)
- Yellow (11%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 13.0282, 0.1678, 0.1242 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 13.0282, 0.1678, 0.1242 by changing the saturation by 10% instead.


 13.0282, 0.1678,
0.1242


 13.0282, 0.1678,
0.1242


211.0983, 0.2472,
0.2252

 7.4480, 0.1480,
0.1024


 31.3544, 0.1972,
0.1590


 3.7438, 0.1236,
0.0775


 44.8692, 0.2082,
0.1727


 1.5313, 0.0939,
0.0501

 61.7977, 0.2174,
0.1846

 0.3106, 0.0599,
0.0172

 82.5241, 0.2252,
0.1949

 0.0000, 0.0013,
0.0000

 107.4331, 0.2319,
0.2039

 0.0000, 0.0000,
0.0000

136.9088, 0.2377,

0.2119

171.3357, 0.2427,
0.2189

■ 13.0282, 0.1678,
0.1242

■ 13.0282, 0.1678,
0.1242

■ 13.0320, 0.1679,
0.1242

■ 15.7507, 0.1753,
0.1436

■ 19.1217, 0.1854,
0.1651

■ 23.2319, 0.1981,
0.1880

■ 28.1387, 0.2130,
0.2114

■ 33.8921, 0.2293,
0.2345

■ 40.5373, 0.2465,
0.2567

■ 48.1156, 0.2638,
0.2774

■ 56.6655, 0.2808,
0.2965

■ 66.2233, 0.2972,
0.3137

Harmonies

Analogous

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



13.0282, 0.1037, 0.1231



13.0282, 0.1678, 0.1242



13.0282, 0.2924, 0.1556

Triad

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



13.0282, 0.1678, 0.1242



13.0282, 0.6060, 0.3756



13.0282, 0.1441, 0.4764

Complementary

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



13.0282, 0.1678, 0.1242



33.9385, 0.5135, 0.4305

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.



13.0282, 0.2545, 0.6476



13.0282, 0.1678, 0.1242



13.0282, 0.5164, 0.4836

Square

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



13.0282, 0.1678, 0.1242



13.0282, 0.6032, 0.2925



13.0282, 0.3895, 0.6105



13.0282, 0.0881, 0.2641

Rectangle

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



13.0282, 0.1678, 0.1242



13.0282, 0.4094, 0.1935



13.0282, 0.3895, 0.6105



13.0282, 0.1763, 0.5539

Sweetspot

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



13.0320, 0.1679, 0.1242



62.4297, 0.2635, 0.2771



56.6213, 0.2649, 0.4737



12.4363, 0.2561, 0.2684



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.



13.0320, 0.1679, 0.1242



16.7702, 0.1675, 0.1231



5.6842, 0.1522, 0.0612



14.8309, 0.2981, 0.3145



7.8136, 0.1686, 0.1270



0.7553, 0.1767, 0.1559

Inverse Universe

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



17.0882, 0.5407, 0.2752



22.2241, 0.5423, 0.2761



68.3671, 0.4046, 0.5169



14.4633, 0.3230, 0.3196



9.9865, 0.5368, 0.2731



0.7559, 0.4983, 0.2519

Previews

White Background



This preview shows how the Yxy color 13.0282, 0.1678, 0.1242 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 13.0282, 0.1678, 0.1242 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

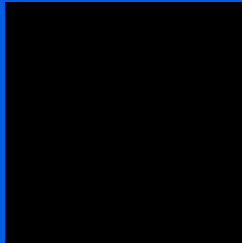
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 13.0282, 0.1678, 0.1242

Background



This preview shows how black text looks on a background with the Yxy color 13.0282, 0.1678, 0.1242.



This preview shows how white text looks on a background with the Yxy color 13.0282, 0.1678, 0.1242.

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

13.0282, 0.1678, 0.1242

Protanopia

12.9572, 0.1744, 0.1477

Deuteranopia

12.8351, 0.1855, 0.1876



Tritanopia

12.8963, 0.2205, 0.3137

Trichromacy



Original Color

13.0282, 0.1678, 0.1242

Protanomaly

12.9885, 0.1719, 0.1386

Deuteranomaly

12.8638, 0.1777, 0.1597

Tritanomaly

12.3693, 0.1930, 0.2146

Monochromacy



Original Color

13.0282, 0.1678, 0.1242

Achromatopsia

7.8187, 0.3127, 0.3290

Achromatomaly

8.5581, 0.2129, 0.2109

CSS Examples

Text

The CSS property to change the color of the text to Yxy 13.0282, 0.1678, 0.1242 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, 91, 227)` looks like.

```
.text, #text, p{  
    color:rgb(0, 91, 227)  
}
```

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, 91, 227) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 91, 227) }
```

Border

The CSS property to change the border of an element to Yxy 13.0282, 0.1678, 0.1242 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, 91, 227) }
```

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

```
.border{ border-color:rgb(0, 91, 227) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 91, 227)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 91, 227); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 91, 227);  
box-shadow:4px 4px 4px 4px rgb(0, 91, 227)  
}
```


Background

The CSS property to change the background color of an element to Yxy 13.0282, 0.1678, 0.1242 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 91, 227) }
```

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

```
.background{ background-color: rgb(0, 91,  
227) }
```

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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