

Converting Colors

$Y_{xy}(12.1880, 0.1664, 0.1119)$

Have a look what the booklet for
Yxy(12.1880, 0.1664, 0.1119)
contains.

Yxy(12.2403, 0.1665, 0.1124)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(12.2403, 0.1665, 0.1124)

Conversions

Conversions Part 1

Format	Color
Hex	1653E9
RGB	22, 83, 233
RGB Percent	9%, 33%, 91%
CMY	0.9148, 0.6745, 0.0861
CMYK	0.91, 0.64, 0.00, 0.09
HSL	223°, 83%, 50%
HSV	223°, 91%, 91%
XYZ	18.1318, 12.2403, 78.5274
YIQ	81.8610, -84.5060, 33.7180

Conversions

Conversions Part 2

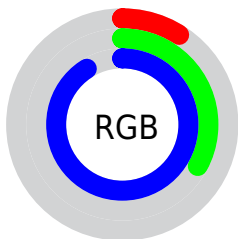
Format	Color
R _Y B	22, 69, 233
Decimal	1463273
CIE Lab	41.60, 39.57, -80.05
CIE LCh	42, 89.301, 296.305
Yxy	12.2403, 0.1665, 0.1124
Android (android.graphics.Color)	4279653353 (0xFF1653E9)
YUV	81.8610, 74.5115, -52.4981
Hunter-Lab	34.9861, 31.2829, -108.5878

Details

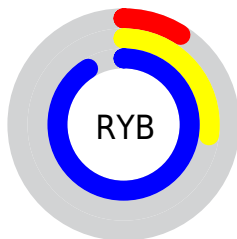
The Yxy color **12.2403, 0.1665, 0.1124** is a dark color, and the websafe version is hex **3366FF**. The color can be described as dark washed blue. A complement of this color would be **46.8045, 0.4729, 0.4566**, and the grayscale version is **8.2550, 0.3127, 0.3290**.

A 20% lighter version of the original color is **27.2332, 0.2090, 0.1719**, and **4.5856, 0.1567, 0.0839** is the 20% darker color. If you saturate the color by 10%, you get **9.9683, 0.1597, 0.0950**, and if you desaturate by 10%, it is **15.4731, 0.1769, 0.1348**.

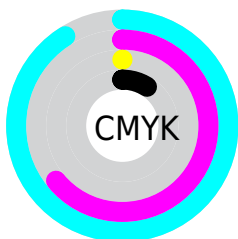
Distribution



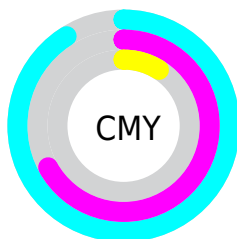
- Red (9%)
- Green (33%)
- Blue (91%)



- Red (9%)
- Yellow (27%)
- Blue (91%)



- Cyan (91%)
- Magenta (64%)
- Yellow (0%)
- Black (9%)



- Cyan (91%)
- Magenta (67%)
- Yellow (9%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.2403, 0.1665, 0.1124 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 12.2403, 0.1665, 0.1124 by changing the saturation by 10% instead.

■ 12.2403, 0.1665,
0.1124

■ 12.2403, 0.1665,
0.1124

■ 205.9897, 0.2470,
0.2168

■ 6.9076, 0.1466,
0.0908

■ 29.9320, 0.1962,
0.1476

■ 3.4043, 0.1222,
0.0667

■ 43.0598, 0.2073,
0.1618

■ 1.3463, 0.0927,
0.0412

■ 59.5546, 0.2167,
0.1741

■ 0.1766, 0.0595,
0.0090

■ 79.8010, 0.2246,
0.1849

■ 0.0000, 0.0074,
0.0000

■ 104.1834, 0.2314,
0.1943

■ 0.0000, 0.0000,
0.0000

133.0860, 0.2373,

0.2027

166.8933, 0.2424,
0.2101

■ 12.2403, 0.1665,
0.1124

■ 12.2403, 0.1665,
0.1124

■ 9.9683, 0.1597,
0.0950

■ 15.4731, 0.1769,
0.1348

■ 19.6405, 0.1905,
0.1601

■ 24.8210, 0.2067,
0.1870

■ 31.0830, 0.2245,
0.2143

■ 38.4884, 0.2429,
0.2408

■ 47.0940, 0.2614,
0.2658

■ 56.9527, 0.2792,
0.2888

■ 68.1140, 0.2961,
0.3094

■ 80.6245, 0.3117,
0.3278

Harmonies

Analogous

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



12.2403, 0.0950, 0.1073



12.2403, 0.1665, 0.1124



12.2403, 0.3088, 0.1481

Triad

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



12.2403, 0.1665, 0.1124



12.2403, 0.6213, 0.3787



12.2403, 0.1159, 0.4628

Complementary

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



12.2403, 0.1665, 0.1124



46.8045, 0.4729, 0.4566

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.



12.2403, 0.2234, 0.6831



12.2403, 0.1665, 0.1124



12.2403, 0.5045, 0.4955

Square

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



12.2403, 0.1665, 0.1124



12.2403, 0.6399, 0.2911



12.2403, 0.3608, 0.6392



12.2403, 0.0692, 0.2340

Rectangle

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



12.2403, 0.1665, 0.1124



12.2403, 0.4425, 0.1894



12.2403, 0.3608, 0.6392



12.2403, 0.1460, 0.5579

Sweetspot

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



12.2405, 0.1665, 0.1124



61.8755, 0.2678, 0.2742



61.3571, 0.2517, 0.4208



12.3922, 0.2616, 0.2661



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.



12.2405, 0.1665, 0.1124



12.1097, 0.1595, 0.0943



7.5391, 0.1672, 0.0737



15.2605, 0.2980, 0.3118



5.8389, 0.1605, 0.0976



0.6189, 0.1680, 0.1247

Inverse Universe

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



18.5188, 0.5552, 0.2899



21.7536, 0.5846, 0.2994



69.4052, 0.3854, 0.5274



15.1259, 0.3247, 0.3222



10.0823, 0.5794, 0.2966



0.8079, 0.5400, 0.2748

Previews

White Background



This preview shows how the Yxy color 12.2403, 0.1665, 0.1124 looks on a white background.

Color Contrast Check

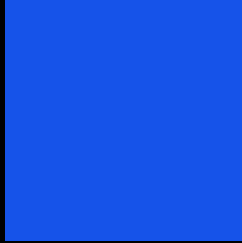
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.2403, 0.1665, 0.1124 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

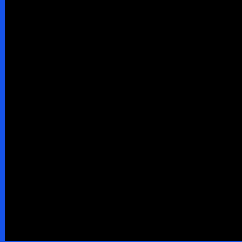
Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

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

Yxy 12.2403, 0.1665, 0.1124

Background



This preview shows how black text looks on a background with the Yxy color 12.2403, 0.1665, 0.1124.



This preview shows how white text looks on a background with the Yxy color 12.2403, 0.1665, 0.1124.

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

12.2403, 0.1665, 0.1124

Protanopia

12.0826, 0.1746, 0.1486

Deuteranopia

11.9789, 0.1862, 0.1904



Tritanopia

11.9400, 0.2203, 0.3132

Trichromacy



Original Color

12.2403, 0.1665, 0.1124

Protanomaly

12.0671, 0.1710, 0.1330

Deuteranomaly

11.8628, 0.1770, 0.1542

Tritanomaly

11.4096, 0.1915, 0.2052

Monochromacy



Original Color

12.2403, 0.1665, 0.1124

Achromatopsia

8.4376, 0.3127, 0.3290

Achromatomaly

8.8014, 0.2182, 0.2044

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.2403, 0.1665, 0.1124 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(22, 83, 233)` looks like.

```
.text, #text, p{  
  color:rgb(22, 83, 233)  
}
```

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(22, 83, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(22, 83, 233) }
```

Border

The CSS property to change the border of an element to Yxy 12.2403, 0.1665, 0.1124 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(22, 83, 233) }
```

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

```
.border{ border-color:rgb(22, 83, 233) }
```

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

Here you see how a box with a 4 pixel `rgb(22, 83, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(22, 83, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(22, 83, 233);  
box-shadow:4px 4px 4px 4px rgb(22, 83,  
233) }
```


Background

The CSS property to change the background color of an element to Yxy 12.2403, 0.1665, 0.1124 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(22, 83, 233) }
```

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

```
.background{ background-color: rgb(22, 83,  
233) }
```

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