

# Converting Colors

$Y_{xy}(10.2068, 0.1688, 0.1196)$

Have a look what the booklet for  
Yxy(10.2068, 0.1688, 0.1196)  
contains.

<b>Yxy(10.1516, 0.1685, 0.1188)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(10.1516, 0.1685, 0.1188)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	144ED0
RGB	20, 78, 208
RGB Percent	8%, 31%, 82%
CMY	0.9224, 0.6941, 0.1842
CMYK	0.90, 0.63, 0.00, 0.18
HSL	221°, 83%, 45%
HSV	221°, 90%, 82%
XYZ	14.3985, 10.1516, 60.9011
YIQ	75.4780, -76.2980, 28.1340

# Conversions

## Conversions Part 2

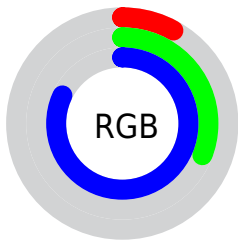
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	20, 64, 208
Decimal	1330896
CIE <sub>Lab</sub>	38.11, 33.29, -71.49
CIE <sub>LCh</sub>	38, 78.860, 294.973
Yxy	10.1516, 0.1685, 0.1188
Android (android.graphics.Color)	4279520976 (0xFF144ED0)
YUV	75.4780, 65.3333, -48.6542
Hunter-Lab	31.8616, 24.9079, -91.0254

# Details

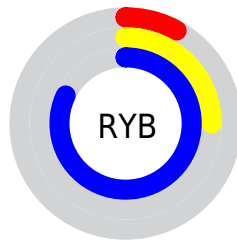
The Yxy color **10.1516, 0.1685, 0.1188** is a dark color, and the websafe version is hex **0066FF**. The color can be described as dark washed blue. A complement of this color would be **35.2256, 0.4762, 0.4530**, and the grayscale version is **7.0066, 0.3127, 0.3290**.

A 20% lighter version of the original color is **25.4629, 0.2039, 0.1644**, and **3.4691, 0.1576, 0.0872** is the 20% darker color. If you saturate the color by 10%, you get **8.2599, 0.1613, 0.1006**, and if you desaturate by 10%, it is **12.7386, 0.1790, 0.1412**.

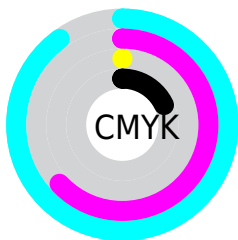
# Distribution



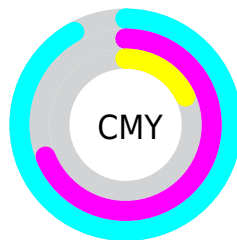
- Red (8%)
- Green (31%)
- Blue (82%)



- Red (8%)
- Yellow (25%)
- Blue (82%)



- Cyan (90%)
- Magenta (63%)
- Yellow (0%)
- Black (18%)



- Cyan (92%)
- Magenta (69%)
- Yellow (18%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 10.1516, 0.1685, 0.1188 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 10.1516, 0.1685, 0.1188 by changing the saturation by 10% instead.



■ 10.1516, 0.1685,  
0.1188

■ 10.1516, 0.1685,  
0.1188

■ 191.7507, 0.2506,  
0.2254

■ 5.4996, 0.1470,  
0.0953

■ 26.0803, 0.1997,  
0.1560

■ 2.5433, 0.1202,  
0.0685

■ 38.1257, 0.2111,  
0.1706

■ 0.8982, 0.0872,  
0.0399

■ 53.4044, 0.2206,  
0.1832

■ 0.0000, 0.0488,  
0.0000

■ 72.3007, 0.2286,  
0.1940

■ 0.0000, 0.0000,  
0.0000

■ 95.1992, 0.2353,  
0.2034

122.4840, 0.2411,

0.2117

154.5397, 0.2462,  
0.2189

■ 10.1516, 0.1685,  
0.1188

■ 10.1516, 0.1685,  
0.1188

■ 8.2599, 0.1613,  
0.1006

■ 12.7386, 0.1790,  
0.1412

■ 16.0234, 0.1926,  
0.1662

■ 20.0624, 0.2086,  
0.1925

■ 24.9048, 0.2260,  
0.2189

■ 30.5954, 0.2442,  
0.2445

■ 37.1750, 0.2623,  
0.2685

■ 44.6820, 0.2799,  
0.2906

■ 53.1521, 0.2965,  
0.3105

■ 62.6192, 0.3120,  
0.3282

# Harmonies

## Analogous

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



10.1516, 0.1001, 0.1153



10.1516, 0.1685, 0.1188



10.1516, 0.3023, 0.1528

# Triad

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



10.1516, 0.1685, 0.1188



10.1516, 0.6162, 0.3808



10.1516, 0.1295, 0.4669

# Complementary

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



10.1516, 0.1685, 0.1188



35.2256, 0.4762, 0.4530

# 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.



10.1516, 0.2383, 0.6631



10.1516, 0.1685, 0.1188



10.1516, 0.5092, 0.4908

# Square

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



10.1516, 0.1685, 0.1188



10.1516, 0.6217, 0.2933



10.1516, 0.3745, 0.6255



10.1516, 0.0785, 0.2477



# Rectangle

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



10.1516, 0.1685, 0.1188



10.1516, 0.4274, 0.1926



10.1516, 0.3745, 0.6255



10.1516, 0.1605, 0.5529

# Sweetspot

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



10.1518, 0.1685, 0.1188



62.5164, 0.2679, 0.2757



47.4300, 0.2531, 0.4253



12.5408, 0.2618, 0.2678



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.



10.1518, 0.1685, 0.1188



12.7899, 0.1608, 0.0987



5.8421, 0.1665, 0.0738



12.0055, 0.2982, 0.3125



5.2978, 0.1620, 0.1031



0.4368, 0.1724, 0.1405



# Inverse Universe

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



14.4591, 0.5459, 0.2855



21.8223, 0.5779, 0.2957



54.1261, 0.3882, 0.5247



11.8676, 0.3243, 0.3218



8.6061, 0.5713, 0.2921



0.4954, 0.5184, 0.2629



# Previews

## White Background



This preview shows how the Yxy color 10.1516, 0.1685, 0.1188 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

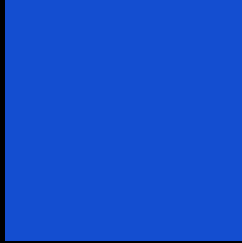
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 10.1516, 0.1685, 0.1188 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

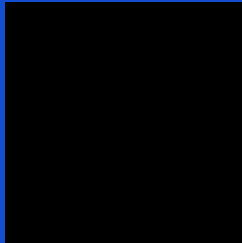
Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

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

**Yxy 10.1516, 0.1685, 0.1188**

## **Background**



This preview shows how black text looks on a background with the Yxy color 10.1516, 0.1685, 0.1188.



This preview shows how white text looks on a background with the Yxy color 10.1516, 0.1685, 0.1188.

# 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

10.1516, 0.1685, 0.1188

### Protanopia

10.0330, 0.1747, 0.1489

### Deuteranopia

10.0546, 0.1863, 0.1906



## Tritanopia

9.9436, 0.2200, 0.3120

# Trichromacy



## Original Color

10.1516, 0.1685, 0.1188

## Protanomaly

9.9933, 0.1721, 0.1366

## Deuteranomaly

9.9567, 0.1781, 0.1578

## Tritanomaly

9.4803, 0.1929, 0.2100

# Monochromacy



## Original Color

10.1516, 0.1685, 0.1188

## Achromatopsia

7.0360, 0.3127, 0.3290

## Achromatomaly

7.4112, 0.2216, 0.2123

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 10.1516, 0.1685, 0.1188 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(20, 78, 208)` looks like.

```
.text, #text, p{  
    color:rgb(20, 78, 208)  
}
```

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(20, 78, 208) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(20, 78, 208) }
```

## Border

The CSS property to change the border of an element to Yxy 10.1516, 0.1685, 0.1188 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(20, 78, 208) }
```

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

```
.border{ border-color:rgb(20, 78, 208) }
```

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

Here you see how a box with a 4 pixel `rgb(20, 78, 208)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(20, 78, 208); -webkit-box-  
shadow:4px 4px 4px 4px rgb(20, 78, 208);  
box-shadow:4px 4px 4px 4px rgb(20, 78,  
208) }
```



# Background

The CSS property to change the background color of an element to Yxy 10.1516, 0.1685, 0.1188 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(20, 78, 208) }
```

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

```
.background{ background-color: rgb(20, 78,  
208) }
```

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