

# Converting Colors

$Y_{xy}(29.9336, 0.2016, 0.1984)$

Have a look what the booklet for  
Yxy(29.9336, 0.2016, 0.1984)  
contains.

<b>Yxy(29.9830, 0.2016, 0.1986)</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(29.9830, 0.2016, 0.1986)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4D96F5
RGB	77, 150, 245
RGB Percent	30%, 59%, 96%
CMY	0.6986, 0.4117, 0.0393
CMYK	0.69, 0.39, 0.00, 0.04
HSL	214°, 89%, 63%
HSV	214°, 69%, 96%
XYZ	30.4359, 29.9830, 90.5529
YIQ	139.0030, -74.0030, 14.0690

# Conversions

## Conversions Part 2

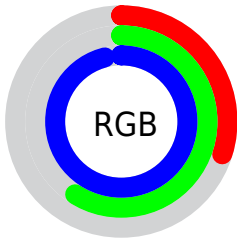
Format	Color
R <sub>Y</sub> B	77, 128, 245
Decimal	5084917
CIE Lab	61.64, 7.42, -54.22
CIE LCh	62, 54.725, 277.793
Yxy	29.9830, 0.2016, 0.1986
Android (android.graphics.Color)	4283274997 (0xFF4D96F5)
YUV	139.0030, 52.2565, -54.3766
Hunter-Lab	54.7567, 3.3929, -59.7200

# Details

The Yxy color **29.9830, 0.2016, 0.1986** is a light color, and the websafe version is hex **3399FF**. The color can be described as light washed azure. A complement of this color would be **49.3710, 0.4599, 0.4228**, and the grayscale version is **25.6232, 0.3127, 0.3290**.

A 20% lighter version of the original color is **56.1565, 0.2422, 0.2678**, and **12.7452, 0.1801, 0.1684** is the 20% darker color. If you saturate the color by 10%, you get **24.9930, 0.1890, 0.1766**, and if you desaturate by 10%, it is **35.8794, 0.2163, 0.2209**.

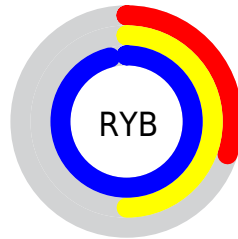
# Distribution



Red (30%)

Green (59%)

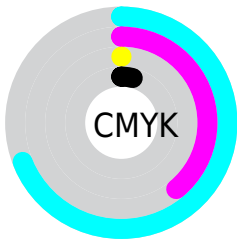
Blue (96%)



Red (30%)

Yellow (50%)

Blue (96%)

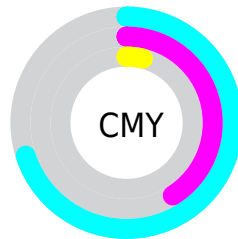


Cyan (69%)

Magenta (39%)

Yellow (0%)

Black (4%)



Cyan (70%)

Magenta (41%)


Yellow (4%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 29.9830, 0.2016, 0.1986 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 29.9830, 0.2016, 0.1986 by changing the saturation by 10% instead.





 29.9830, 0.2016,  
0.1986


 29.9830, 0.2016,  
0.1986


301.8252, 0.2577,  
0.2629


 19.8257, 0.1881,  
0.1836


 59.6353, 0.2217,  
0.2213

 12.2684, 0.1714,  
0.1651


 79.8991, 0.2294,  
0.2301

 6.9267, 0.1502,  
0.1421


 104.3004, 0.2359,  
0.2376

 3.4163, 0.1232,  
0.1134

 133.2238, 0.2415,  
0.2440

 1.3528, 0.0892,  
0.0783

167.0536, 0.2463,  
0.2497

 0.1815, 0.0403,  
0.0207

206.1741, 0.2506,

 0.0000, 0.0000,

0.2546

0.0000

250.9699, 0.2543,  
0.2590

■ 29.9830, 0.2016,  
0.1986

■ 29.9830, 0.2016,  
0.1986

■ 24.9930, 0.1890,  
0.1766

■ 35.8794, 0.2163,  
0.2209

■ 20.8429, 0.1789,  
0.1556

■ 42.7353, 0.2323,  
0.2427

■ 17.4484, 0.1714,  
0.1363

■ 50.6018, 0.2492,  
0.2634

■ 17.0295, 0.1705,  
0.1338

■ 59.5251, 0.2663,  
0.2828

■ 69.5481, 0.2831,  
0.3006

■ 80.7112, 0.2993,  
0.3166

■ 93.0522, 0.3148,  
0.3309

■ 99.3714, 0.3185,  
0.3386

# Harmonies

## Analogous

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



29.9830, 0.1693, 0.2157



29.9830, 0.2016, 0.1986



29.9830, 0.2644, 0.2089

# Triad

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



29.9830, 0.2016, 0.1986



29.9830, 0.4841, 0.3537



29.9830, 0.2594, 0.4466

# Complementary

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



29.9830, 0.2016, 0.1986



49.3710, 0.4599, 0.4228

# 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.



29.9830, 0.3411, 0.4926



29.9830, 0.2016, 0.1986



29.9830, 0.4742, 0.4168

# Square

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



29.9830, 0.2016, 0.1986



29.9830, 0.4375, 0.2933



29.9830, 0.4196, 0.4722



29.9830, 0.1970, 0.3522



# Rectangle

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



29.9830, 0.2016, 0.1986



29.9830, 0.3209, 0.2289



29.9830, 0.4196, 0.4722



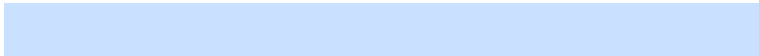
29.9830, 0.2856, 0.4697

# Sweetspot

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



29.9840, 0.2016, 0.1986



73.4196, 0.2791, 0.2964



69.7408, 0.2655, 0.4318



15.0559, 0.2744, 0.2916



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.



29.9840, 0.2016, 0.1986



25.6648, 0.1851, 0.1690



13.8206, 0.1838, 0.1110



17.1133, 0.2980, 0.3153



9.4398, 0.1713, 0.1368



1.0302, 0.1781, 0.1610



# Inverse Universe

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



26.8979, 0.4389, 0.2578



25.0098, 0.4781, 0.2559



83.7577, 0.3997, 0.4868



16.6023, 0.3225, 0.3187



11.0523, 0.5234, 0.2657



0.9916, 0.4918, 0.2483



# Previews

## White Background



This preview shows how the Yxy color 29.9830, 0.2016, 0.1986 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

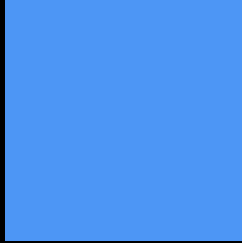
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 29.9830, 0.2016, 0.1986 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

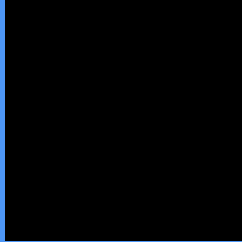
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

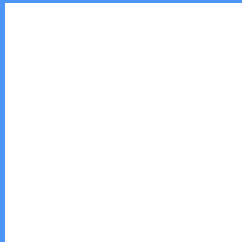
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 29.9830, 0.2016, 0.1986**

## **Background**



This preview shows how black text looks on a background with the Yxy color 29.9830, 0.2016, 0.1986.



This preview shows how white text looks on a background with the Yxy color 29.9830, 0.2016, 0.1986.

# 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

29.9830, 0.2016, 0.1986

### Protanopia

29.8571, 0.2172, 0.2009

### Deuteranopia

29.9723, 0.2040, 0.1980



## Tritanopia

29.9140, 0.2198, 0.3044

# Trichromacy



## Original Color

29.9830, 0.2016, 0.1986

## Protanomaly

29.8749, 0.2107, 0.1999

## Deuteranomaly

29.8368, 0.2028, 0.1976

## Tritanomaly

29.5320, 0.2106, 0.2595

# Monochromacy



## Original Color

29.9830, 0.2016, 0.1986

## Achromatopsia

25.8183, 0.3127, 0.3290

## Achromatomaly

26.5723, 0.2569, 0.2724

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 29.9830, 0.2016, 0.1986 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(77, 150, 245)` looks like.

```
.text, #text, p{  
  color:rgb(77, 150, 245)  
}
```

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(77, 150, 245) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 150, 245) }
```

## Border

The CSS property to change the border of an element to Yxy 29.9830, 0.2016, 0.1986 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(77, 150, 245) }
```

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

```
.border{ border-color:rgb(77, 150, 245) }
```

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

Here you see how a box with a 4 pixel `rgb(77, 150, 245)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 150, 245); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 150, 245);  
box-shadow:4px 4px 4px 4px rgb(77, 150,  
245) }
```



# Background

The CSS property to change the background color of an element to Yxy 29.9830, 0.2016, 0.1986 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 150, 245) }
```

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

```
.background{ background-color: rgb(77, 150,  
245) }
```

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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