

# Converting Colors

$Y_{xy}(32.1007, 0.1910, 0.1978)$

Have a look what the booklet for  
Yxy(32.1007, 0.1910, 0.1978)  
contains.

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# Color

**Yxy(32.0310, 0.1910, 0.1975)**

# Conversions

## Conversions Part 1

Format	Color
Hex	239EFF
RGB	35, 158, 255
RGB Percent	14%, 62%, 100%
CMY	0.8620, 0.3804, 0.0000
CMYK	0.86, 0.38, 0.00, 0.00
HSL	206°, 100%, 57%
HSV	206°, 86%, 100%
XYZ	30.9768, 32.0310, 99.1745
YIQ	132.2810, -104.4450, 4.0910

# Conversions

## Conversions Part 2

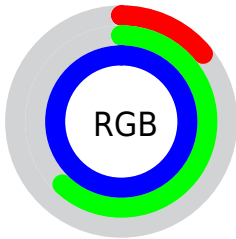
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	35, 114, 255
Decimal	2334463
CIE Lab	63.37, 1.98, -57.03
CIE LCh	63, 57.062, 271.991
Yxy	32.0310, 0.1910, 0.1975
Android (android.graphics.Color)	4280524543 (0xFF239EFF)
YUV	132.2810, 60.5005, -85.3154
Hunter-Lab	56.5959, -1.3440, -64.2782

# Details

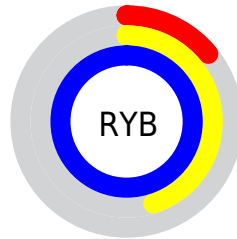
The Yxy color **32.0310, 0.1910, 0.1975** is a dark color, and the websafe version is hex **0099FF**. The color can be described as middle washed azure. A complement of this color would be **37.9417, 0.5297, 0.4033**, and the grayscale version is **23.0068, 0.3127, 0.3290**.

A 20% lighter version of the original color is **58.3000, 0.2339, 0.2764**, and **14.5926, 0.1808, 0.1707** is the 20% darker color. If you saturate the color by 10%, you get **28.0674, 0.1841, 0.1809**, and if you desaturate by 10%, it is **36.6691, 0.2002, 0.2148**.

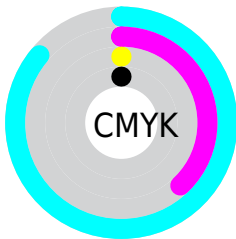
# Distribution



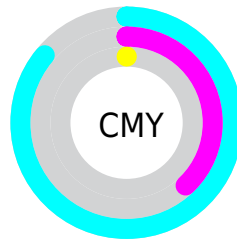
- Red (14%)
- Green (62%)
- Blue (100%)



- Red (14%)
- Yellow (45%)
- Blue (100%)



- Cyan (86%)
- Magenta (38%)
- Yellow (0%)
- Black (0%)




- Cyan (86%)
- Magenta (38%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 32.0310, 0.1910, 0.1975 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 32.0310, 0.1910, 0.1975 by changing the saturation by 10% instead.





 32.0310, 0.1910,  
0.1975


 32.0310, 0.1910,  
0.1975


311.2604, 0.2510,  
0.2619

 21.3852, 0.1770,  
0.1826


 62.8597, 0.2122,  
0.2202


 13.4058, 0.1599,  
0.1644


 83.8113, 0.2204,  
0.2289

 7.7086, 0.1387,  
0.1419


 108.9671, 0.2273,  
0.2364

 3.9091, 0.1122,  
0.1140

 138.7112, 0.2334,  
0.2429

 1.6228, 0.0799,  
0.0802

 173.4283, 0.2386,  
0.2486

 0.3729, 0.0372,  
0.0344

213.5025, 0.2433,

 0.0000, 0.0000,

0.2536

0.0000

259.3185, 0.2474,  
0.2580

■ 32.0310, 0.1910,  
0.1975

■ 32.0310, 0.1910,  
0.1975

■ 28.0674, 0.1841,  
0.1809

■ 36.6691, 0.2002,  
0.2148

■ 26.7014, 0.1819,  
0.1748

■ 42.0517, 0.2117,  
0.2322

■ 48.2356, 0.2249,  
0.2495

■ 55.2703, 0.2396,  
0.2661

■ 63.2003, 0.2552,  
0.2819

■ 72.0664, 0.2712,  
0.2966

■ 81.9064, 0.2873,  
0.3100

■ 92.7555, 0.3031,  
0.3221

■ 100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



32.0310, 0.1642, 0.2206



32.0310, 0.1910, 0.1975



32.0310, 0.2487, 0.2030

# Triad

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



32.0310, 0.1910, 0.1975



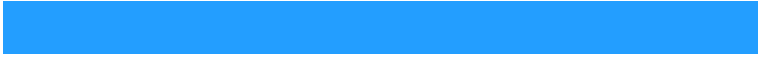
32.0310, 0.4827, 0.3415



32.0310, 0.2734, 0.4639

# Complementary

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



32.0310, 0.1910, 0.1975



37.9417, 0.5297, 0.4033

# 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.



32.0310, 0.3575, 0.4965



32.0310, 0.1910, 0.1975



32.0310, 0.4832, 0.4054

# Square

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



32.0310, 0.1910, 0.1975



32.0310, 0.4250, 0.2816



32.0310, 0.4344, 0.4651



32.0310, 0.2047, 0.3722



# Rectangle

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



32.0310, 0.1910, 0.1975



32.0310, 0.3034, 0.2204



32.0310, 0.4344, 0.4651



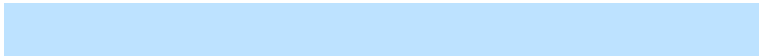
32.0310, 0.3009, 0.4831

# Sweetspot

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



32.0307, 0.1910, 0.1975



72.2509, 0.2715, 0.2968



73.5045, 0.2750, 0.4988



14.7827, 0.2659, 0.2919



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

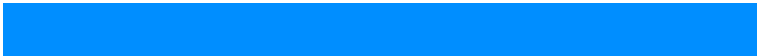


# Same Dimension

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



32.0307, 0.1910, 0.1975



26.7014, 0.1819, 0.1748



9.8493, 0.1588, 0.0787



19.0611, 0.2979, 0.3182



14.2548, 0.1826, 0.1774



1.6058, 0.1878, 0.1962



# Inverse Universe

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



24.9419, 0.4463, 0.2318



23.2267, 0.4748, 0.2389



83.9069, 0.4266, 0.4916



18.1570, 0.3206, 0.3158



12.1670, 0.4716, 0.2372

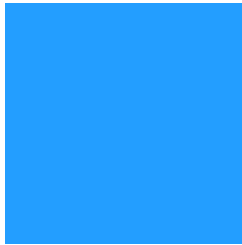


1.2067, 0.4496, 0.2251



# Previews

## White Background



This preview shows how the Yxy color 32.0310, 0.1910, 0.1975 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

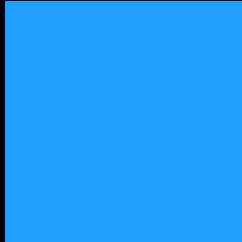
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 32.0310, 0.1910, 0.1975 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

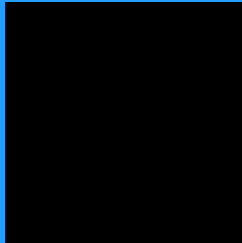
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

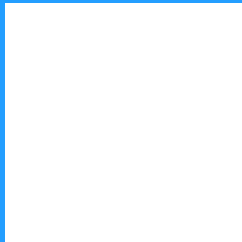
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 32.0310, 0.1910, 0.1975**

## **Background**



This preview shows how black text looks on a background with the Yxy color 32.0310, 0.1910, 0.1975.



This preview shows how white text looks on a background with the Yxy color 32.0310, 0.1910, 0.1975.

# 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

32.0310, 0.1910, 0.1975

### Protanopia

31.7877, 0.2174, 0.2005

### Deuteranopia

31.7963, 0.2011, 0.1942



## **Tritanopia**

31.7121, 0.2190, 0.3082

# Trichromacy



**Original Color**

32.0310, 0.1910, 0.1975

**Protanomaly**

31.2899, 0.2036, 0.1977

**Deuteranomaly**

31.7865, 0.1963, 0.1953

**Tritanomaly**

31.5499, 0.2067, 0.2607

# Monochromacy



**Original Color**

32.0310, 0.1910, 0.1975

**Achromatopsia**

23.0740, 0.3127, 0.3290

**Achromatomaly**

24.7655, 0.2424, 0.2682

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 32.0310, 0.1910, 0.1975 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(35, 158, 255)` looks like.

```
.text, #text, p{  
    color:rgb(35, 158, 255)  
}
```

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(35, 158, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(35, 158, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 32.0310, 0.1910, 0.1975 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(35, 158, 255) }
```

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

```
.border{ border-color:rgb(35, 158, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(35, 158, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(35, 158, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(35, 158, 255);  
box-shadow:4px 4px 4px 4px rgb(35, 158,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 32.0310, 0.1910, 0.1975 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(35, 158, 255) }
```

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

```
.background{ background-color: rgb(35, 158,  
255) }
```

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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