

Converting Colors

$Y_{xy}(29.8488, 0.1949, 0.2137)$

Have a look what the booklet for
Yxy(29.8488, 0.1949, 0.2137)
contains.

Yxy(30.0220, 0.1950, 0.2139)	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(30.0220, 0.1950, 0.2139)

Conversions

Conversions Part 1

Format	Color
Hex	1C9CEB
RGB	28, 156, 235
RGB Percent	11%, 61%, 92%
CMY	0.8893, 0.3883, 0.0784
CMYK	0.88, 0.34, 0.00, 0.08
HSL	203°, 84%, 52%
HSV	203°, 88%, 92%
XYZ	27.3693, 30.0220, 82.9640
YIQ	126.7340, -101.6470, -2.5670

Conversions

Conversions Part 2

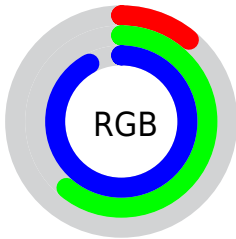
Format	Color
R _Y B	28, 107, 235
Decimal	1875179
CIE Lab	61.67, -4.62, -48.75
CIE LCh	62, 48.972, 264.584
Yxy	30.0220, 0.1950, 0.2139
Android (android.graphics.Color)	4280065259 (0xFF1C9CEB)
YUV	126.7340, 53.3751, -86.5897
Hunter-Lab	54.7923, -6.7242, -51.4195

Details

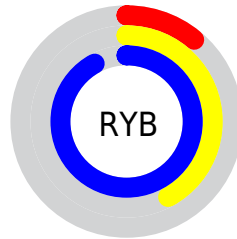
The Yxy color **30.0220, 0.1950, 0.2139** is a dark color, and the websafe version is hex **0099FF**. The color can be described as middle washed azure. A complement of this color would be **28.3225, 0.5479, 0.3903**, and the grayscale version is **20.9919, 0.3127, 0.3290**.

A 20% lighter version of the original color is **56.8239, 0.2306, 0.2735**, and **13.3578, 0.1855, 0.1879** is the 20% darker color. If you saturate the color by 10%, you get **26.8995, 0.1890, 0.1995**, and if you desaturate by 10%, it is **33.6226, 0.2031, 0.2287**.

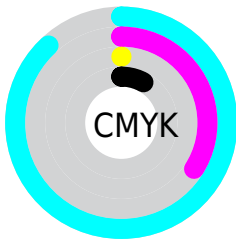
Distribution



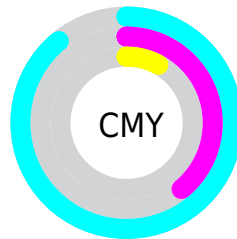
- Red (11%)
- Green (61%)
- Blue (92%)



- Red (11%)
- Yellow (42%)
- Blue (92%)



- Cyan (88%)
- Magenta (34%)
- Yellow (0%)
- Black (8%)





- Cyan (89%)
- Magenta (39%)
- Yellow (8%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 30.0220, 0.1950, 0.2139 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 30.0220, 0.1950, 0.2139 by changing the saturation by 10% instead.


 30.0220, 0.1950,
0.2139


 30.0220, 0.1950,
0.2139


302.0070, 0.2540,
0.2725


 19.8553, 0.1809,
0.1996


 59.6970, 0.2161,
0.2351


 12.2899, 0.1633,
0.1817

 79.9740, 0.2242,
0.2431


 6.9414, 0.1411,
0.1590


 104.3900, 0.2311,
0.2499

 3.4255, 0.1130,
0.1297

 133.3292, 0.2369,
0.2557

 1.3577, 0.0779,
0.0922

 167.1761, 0.2421,
0.2607

 0.1852, 0.0090,
0.0264

206.3151, 0.2466,

 0.0000, 0.0000,

0.2651

0.0000

251.1306, 0.2505,
0.2690

■ 30.0220, 0.1950,
0.2139

■ 30.0220, 0.1950,
0.2139

■ 26.8995, 0.1890,
0.1995

■ 33.6226, 0.2031,
0.2287

■ 26.3101, 0.1880,
0.1966

■ 37.7594, 0.2133,
0.2437

■ 42.4785, 0.2253,
0.2584

■ 47.8187, 0.2389,
0.2727

■ 53.8147, 0.2536,
0.2863

■ 60.4981, 0.2690,
0.2990

■ 67.8977, 0.2847,
0.3107

■ 76.0408, 0.3004,
0.3213

■ 84.9528, 0.3158,
0.3308

Harmonies

Analogous

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



30.0220, 0.1773, 0.2433



30.0220, 0.1950, 0.2139



30.0220, 0.2409, 0.2123

Triad

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



30.0220, 0.1950, 0.2139



30.0220, 0.4538, 0.3283



30.0220, 0.2976, 0.4582

Complementary

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



30.0220, 0.1950, 0.2139



28.3225, 0.5479, 0.3903

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.



30.0220, 0.3729, 0.4737



30.0220, 0.1950, 0.2139



30.0220, 0.4685, 0.3861

Square

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



30.0220, 0.1950, 0.2139



30.0220, 0.3932, 0.2751



30.0220, 0.4362, 0.4404



30.0220, 0.2304, 0.3887

Rectangle

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



30.0220, 0.1950, 0.2139



30.0220, 0.2861, 0.2245



30.0220, 0.4362, 0.4404



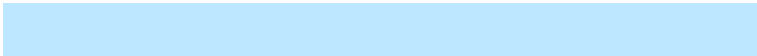
30.0220, 0.3228, 0.4701

Sweetspot

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



30.0230, 0.1950, 0.2139



74.4052, 0.2719, 0.3012



60.6790, 0.2807, 0.5209



15.2943, 0.2665, 0.2970



0.0000, 0.0000, 0.0000



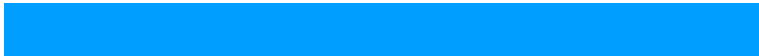
21.4041, 0.3127, 0.3290

Same Dimension

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



30.0230, 0.1950, 0.2139



31.5170, 0.1878, 0.1960



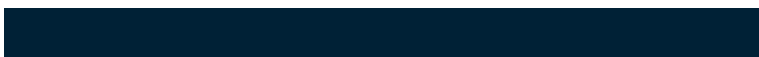
9.0596, 0.1602, 0.0859



16.0987, 0.2981, 0.3198



14.8942, 0.1886, 0.1989



1.3545, 0.1941, 0.2189

Inverse Universe

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



20.9075, 0.4286, 0.2202



23.7128, 0.4499, 0.2252



62.5942, 0.4387, 0.4826



15.2105, 0.3196, 0.3145



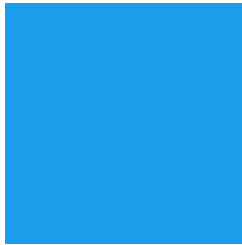
10.9964, 0.4466, 0.2234



0.8821, 0.4245, 0.2112

Previews

White Background



This preview shows how the Yxy color 30.0220, 0.1950, 0.2139 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 30.0220, 0.1950, 0.2139 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

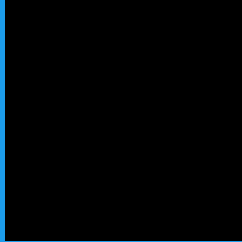
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

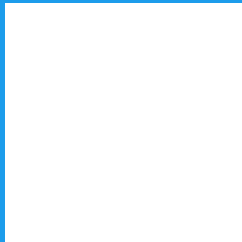
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 30.0220, 0.1950, 0.2139

Background



This preview shows how black text looks on a background with the Yxy color 30.0220, 0.1950, 0.2139.

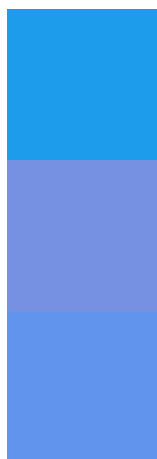


This preview shows how white text looks on a background with the Yxy color 30.0220, 0.1950, 0.2139.

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

30.0220, 0.1950, 0.2139

Protanopia

29.6637, 0.2294, 0.2163

Deuteranopia

29.7810, 0.2121, 0.2058



Tritanopia

29.7252, 0.2183, 0.3060

Trichromacy



Original Color

30.0220, 0.1950, 0.2139

Protanomaly

29.1305, 0.2111, 0.2140

Deuteranomaly

29.5289, 0.2030, 0.2081

Tritanomaly

29.6315, 0.2085, 0.2679

Monochromacy



Original Color

30.0220, 0.1950, 0.2139

Achromatopsia

21.2231, 0.3127, 0.3290

Achromatomaly

23.1543, 0.2447, 0.2792

CSS Examples

Text

The CSS property to change the color of the text to Yxy 30.0220, 0.1950, 0.2139 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(28, 156, 235)` looks like.

```
.text, #text, p{  
    color:rgb(28, 156, 235)  
}
```

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(28, 156, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(28, 156, 235) }
```

Border

The CSS property to change the border of an element to Yxy 30.0220, 0.1950, 0.2139 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(28, 156, 235) }
```

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

```
.border{ border-color:rgb(28, 156, 235) }
```

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

Here you see how a box with a 4 pixel `rgb(28, 156, 235)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(28, 156, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(28, 156, 235);  
box-shadow:4px 4px 4px 4px rgb(28, 156,  
235) }
```


Background

The CSS property to change the background color of an element to Yxy 30.0220, 0.1950, 0.2139 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(28, 156, 235) }
```

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

```
.background{ background-color: rgb(28, 156,  
235) }
```

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