

# Converting Colors

$Y_{xy}(65.0069, 0.2198, 0.2990)$

Have a look what the booklet for  
Yxy(65.0069, 0.2198, 0.2990)  
contains.

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# Color

**Yxy(64.9527, 0.2197, 0.2989)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2EE7FF
RGB	46, 231, 255
RGB Percent	18%, 91%, 100%
CMY	0.8205, 0.0941, 0.0001
CMYK	0.82, 0.09, 0.00, 0.00
HSL	187°, 100%, 59%
HSV	187°, 82%, 100%
XYZ	47.7421, 64.9527, 104.6110
YIQ	178.4210, -117.9640, -31.7560

# Conversions

## Conversions Part 2

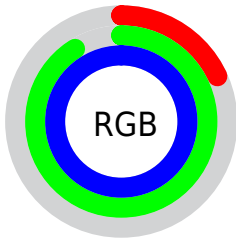
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	46, 144, 255
Decimal	3074047
CIE Lab	84.46, -35.56, -24.14
CIE LCh	84, 42.979, 214.177
Yxy	64.9527, 0.2197, 0.2989
Android (android.graphics.Color)	4281264127 (0xFF2EE7FF)
YUV	178.4210, 37.7534, -116.1332
Hunter-Lab	80.5932, -35.2978, -20.5439

# Details

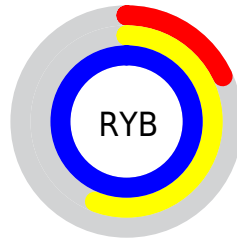
The Yxy color **64.9527, 0.2197, 0.2989** is a light color, and the websafe version is hex **66FFFF**. The color can be described as light washed cyan. A complement of this color would be **25.8010, 0.5859, 0.3444**, and the grayscale version is **44.5660, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.4858, 0.2482, 0.3288**, and **34.7372, 0.2144, 0.2918** is the 20% darker color. If you saturate the color by 10%, you get **62.9092, 0.2162, 0.2949**, and if you desaturate by 10%, it is **67.3785, 0.2251, 0.3030**.

# Distribution



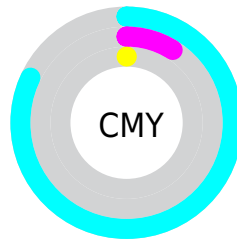
- Red (18%)
- Green (91%)
- Blue (100%)



- Red (18%)
- Yellow (56%)
- Blue (100%)



- Cyan (82%)
- Magenta (9%)
- Yellow (0%)
- Black (0%)




- Cyan (82%)
- Magenta (9%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 64.9527, 0.2197, 0.2989 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 64.9527, 0.2197, 0.2989 by changing the saturation by 10% instead.




 64.9527, 0.2197,  
0.2989


 64.9527, 0.2197,  
0.2989


442.6220, 0.2618,  
0.3145


 47.4227, 0.2104,  
0.2950


 111.9819, 0.2340,  
0.3046

 33.3700, 0.1992,  
0.2899


 142.2498, 0.2397,  
0.3068

 22.4100, 0.1853,  
0.2833


 177.5326, 0.2446,  
0.3086

 14.1585, 0.1679,  
0.2743

 218.2145, 0.2489,  
0.3101

 8.2310, 0.1454,  
0.2613

264.6800, 0.2527,  
0.3115

 4.2431, 0.1160,  
0.2418

317.3135, 0.2560,

 1.8105, 0.0760,

0.3126

0.2106

376.4994, 0.2591,  
0.3136

0.4937, 0.0000,  
0.1474

0.0000, 0.0000,  
0.0000

64.9527, 0.2197,  
0.2989

64.9527, 0.2197,  
0.2989

62.9092, 0.2162,  
0.2949

67.3785, 0.2251,  
0.3030

61.4866, 0.2144,  
0.2918

70.2340, 0.2325,  
0.3070

73.5666, 0.2418,  
0.3110

77.4154, 0.2529,  
0.3149

81.8153, 0.2655,  
0.3186

86.7982, 0.2794,  
0.3221

92.3932, 0.2941,  
0.3254

98.6275, 0.3095,  
0.3284

99.9988, 0.3127,  
0.3290

# Harmonies

## Analogous

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



64.9527, 0.2444, 0.3516



64.9527, 0.2197, 0.2989



64.9527, 0.2176, 0.2614

# Triad

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



64.9527, 0.2197, 0.2989



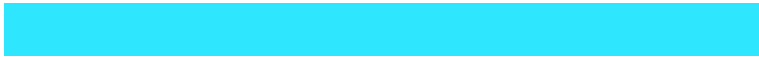
64.9527, 0.3312, 0.2695



64.9527, 0.3885, 0.4177

# Complementary

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



64.9527, 0.2197, 0.2989



25.8010, 0.5859, 0.3444

# 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.



64.9527, 0.4168, 0.3862



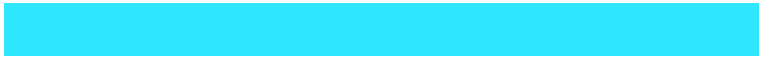
64.9527, 0.2197, 0.2989



64.9527, 0.3832, 0.3037

# Square

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



64.9527, 0.2197, 0.2989



64.9527, 0.2779, 0.2484



64.9527, 0.4155, 0.3450

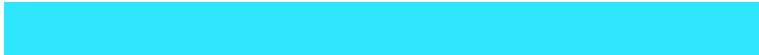


64.9527, 0.3410, 0.4261

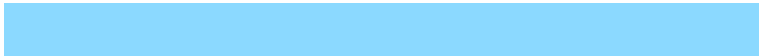


# Rectangle

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



64.9527, 0.2197, 0.2989



64.9527, 0.2286, 0.2480



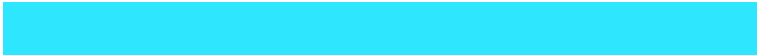
64.9527, 0.4155, 0.3450



64.9527, 0.4007, 0.4091

# Sweetspot

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



64.9551, 0.2197, 0.2989



85.2774, 0.2752, 0.3211



72.4852, 0.2968, 0.5680



17.8769, 0.2703, 0.3199



0.0000, 0.0000, 0.0000

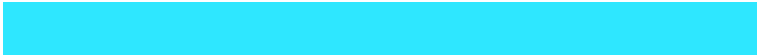


21.4041, 0.3127, 0.3290

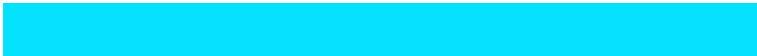


# Same Dimension

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



64.9551, 0.2197, 0.2989



61.8480, 0.2148, 0.2925



23.6174, 0.1824, 0.1591



20.1051, 0.2980, 0.3262



32.2754, 0.2146, 0.2924



3.2392, 0.2158, 0.2970



# Inverse Universe

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



28.9639, 0.3457, 0.1768



26.8821, 0.3520, 0.1718



50.6921, 0.4840, 0.4355



18.2624, 0.3156, 0.3082



13.9862, 0.3522, 0.1714

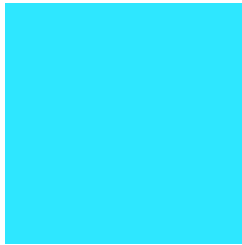


1.3715, 0.3481, 0.1691



# Previews

## White Background



This preview shows how the Yxy color 64.9527, 0.2197, 0.2989 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

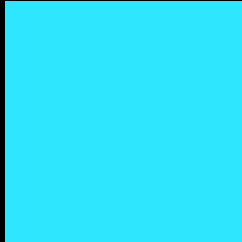
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 64.9527, 0.2197, 0.2989 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

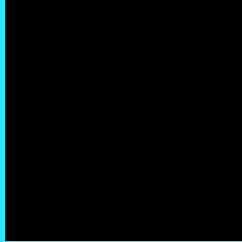
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 64.9527, 0.2197, 0.2989**

## **Background**



This preview shows how black text looks on a background with the Yxy color 64.9527, 0.2197, 0.2989.

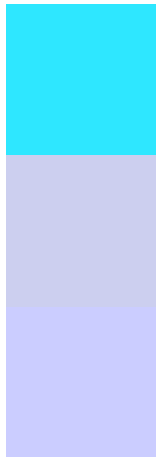


This preview shows how white text looks on a background with the Yxy color 64.9527, 0.2197, 0.2989.

# 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

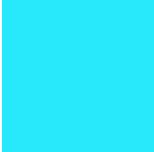
64.9527, 0.2197, 0.2989

### Protanopia

63.6950, 0.2892, 0.2933

### Deuteranopia

63.5792, 0.2786, 0.2746



## Tritanopia

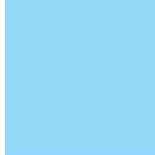
65.1294, 0.2207, 0.3049

# Trichromacy



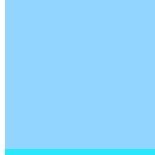
## Original Color

64.9527, 0.2197, 0.2989



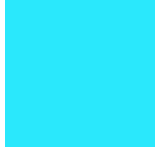
## Protanomaly

61.8153, 0.2516, 0.2940



## Deuteranomaly

61.4241, 0.2464, 0.2805



## Tritanomaly

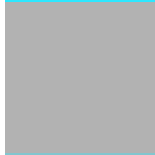
65.2337, 0.2206, 0.3037

# Monochromacy



## Original Color

64.9527, 0.2197, 0.2989



## Achromatopsia

44.5201, 0.3127, 0.3290



## Achromatomaly

49.1346, 0.2597, 0.3166

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 64.9527, 0.2197, 0.2989 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(46, 231, 255)` looks like.

```
.text, #text, p{  
    color:rgb(46, 231, 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(46, 231, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(46, 231, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 64.9527, 0.2197, 0.2989 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(46, 231, 255) }
```

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

```
.border{ border-color:rgb(46, 231, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(46, 231, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(46, 231, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(46, 231, 255);  
box-shadow:4px 4px 4px 4px rgb(46, 231,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 64.9527, 0.2197, 0.2989 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(46, 231, 255) }
```

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

```
.background{ background-color: rgb(46, 231,  
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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