

# Converting Colors

$Y_{xy}(32.7401, 0.1990, 0.2229)$

Have a look what the booklet for  
Yxy(32.7401, 0.1990, 0.2229)  
contains.

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# Color

**Yxy(32.7401, 0.1990, 0.2229)**

# Conversions

## Conversions Part 1

Format	Color
Hex	27A3ED
RGB	39, 163, 237
RGB Percent	15%, 64%, 93%
CMY	0.8459, 0.3608, 0.0705
CMYK	0.83, 0.31, 0.00, 0.07
HSL	202°, 85%, 54%
HSV	202°, 83%, 93%
XYZ	29.2296, 32.7401, 84.9127
YIQ	134.3600, -97.6580, -3.2740

# Conversions

## Conversions Part 2

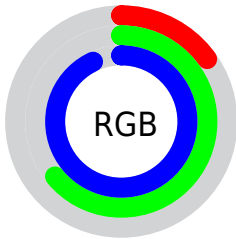
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	39, 115, 237
Decimal	2597869
CIE Lab	63.95, -7.12, -46.25
CIE LCh	64, 46.792, 261.249
Yxy	32.7401, 0.1990, 0.2229
Android (android.graphics.Color)	4280787949 (0xFF27A3ED)
YUV	134.3600, 50.6015, -83.6307
Hunter-Lab	57.2190, -8.9486, -47.9329

# Details

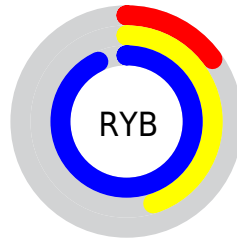
The Yxy color **32.7401, 0.1990, 0.2229** is a dark color, and the websafe version is hex **3399CC**. The color can be described as middle washed azure. A complement of this color would be **30.0395, 0.5367, 0.3909**, and the grayscale version is **23.8476, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.2144, 0.2347, 0.2840**, and **14.9245, 0.1887, 0.1992** is the 20% darker color. If you saturate the color by 10%, you get **29.3693, 0.1922, 0.2086**, and if you desaturate by 10%, it is **36.6233, 0.2079, 0.2375**.

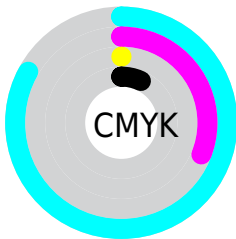
# Distribution



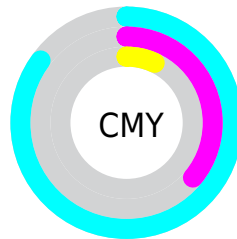
- Red (15%)
- Green (64%)
- Blue (93%)



- Red (15%)
- Yellow (45%)
- Blue (93%)



- Cyan (83%)
- Magenta (31%)
- Yellow (0%)
- Black (7%)




- Cyan (85%)
- Magenta (36%)
- Yellow (7%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 32.7401, 0.1990, 0.2229 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 32.7401, 0.1990, 0.2229 by changing the saturation by 10% instead.





 32.7401, 0.1990,  
0.2229


 32.7401, 0.1990,  
0.2229


314.4770, 0.2555,  
0.2768

 21.9274, 0.1856,  
0.2097


 63.9695, 0.2191,  
0.2424


 13.8036, 0.1689,  
0.1932


 85.1551, 0.2268,  
0.2497


 7.9842, 0.1478,  
0.1720

 110.5671, 0.2334,  
0.2560

 4.0848, 0.1210,  
0.1445

 140.5899, 0.2390,  
0.2613

 1.7211, 0.0870,  
0.1085

 175.6078, 0.2440,  
0.2660

 0.4373, 0.0309,  
0.0559

216.0054, 0.2483,

 0.0000, 0.0000,

0.2700

0.0000

262.1670, 0.2521,  
0.2736

■ 32.7401, 0.1990,  
0.2229

■ 32.7401, 0.1990,  
0.2229

■ 29.3693, 0.1922,  
0.2086

■ 36.6233, 0.2079,  
0.2375

■ 27.3804, 0.1887,  
0.1993

■ 41.0665, 0.2189,  
0.2521

■ 46.1133, 0.2316,  
0.2663

■ 51.8012, 0.2457,  
0.2800

■ 58.1635, 0.2606,  
0.2929

■ 65.2309, 0.2762,  
0.3049

■ 73.0320, 0.2919,  
0.3159

■ 81.5933, 0.3075,  
0.3258

■ 90.9399, 0.3227,  
0.3347

# Harmonies

## Analogous

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



32.7401, 0.1852, 0.2544



32.7401, 0.1990, 0.2229



32.7401, 0.2396, 0.2183

# Triad

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



32.7401, 0.1990, 0.2229



32.7401, 0.4393, 0.3233



32.7401, 0.3072, 0.4522

# Complementary

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



32.7401, 0.1990, 0.2229



30.0395, 0.5367, 0.3909

# 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.



32.7401, 0.3774, 0.4619



32.7401, 0.1990, 0.2229



32.7401, 0.4587, 0.3778

# Square

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



32.7401, 0.1990, 0.2229



32.7401, 0.3796, 0.2737



32.7401, 0.4337, 0.4292



32.7401, 0.2423, 0.3928



# Rectangle

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



32.7401, 0.1990, 0.2229



32.7401, 0.2805, 0.2282



32.7401, 0.4337, 0.4292



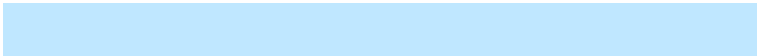
32.7401, 0.3310, 0.4614

# Sweetspot

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



32.7412, 0.1990, 0.2229



75.5535, 0.2735, 0.3030



62.1811, 0.2798, 0.5109



15.5316, 0.2680, 0.2988



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

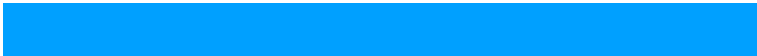


# Same Dimension

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



32.7412, 0.1990, 0.2229



32.1955, 0.1886, 0.1988



10.4090, 0.1647, 0.0949



16.1190, 0.2981, 0.3200



15.2064, 0.1894, 0.2016



1.3778, 0.1948, 0.2212



# Inverse Universe

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



22.1218, 0.4182, 0.2188



23.7813, 0.4466, 0.2234



64.5732, 0.4353, 0.4804



15.2126, 0.3195, 0.3144



11.0279, 0.4434, 0.2216



0.8845, 0.4219, 0.2098



# Previews

## White Background



This preview shows how the Yxy color 32.7401, 0.1990, 0.2229 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

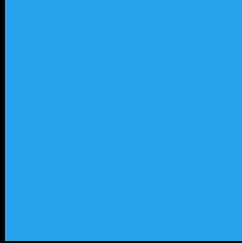
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 32.7401, 0.1990, 0.2229 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

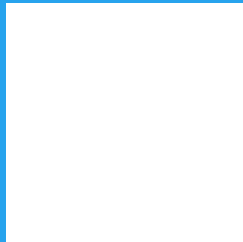
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 32.7401, 0.1990, 0.2229**

## **Background**



This preview shows how black text looks on a background with the Yxy color 32.7401, 0.1990, 0.2229.



This preview shows how white text looks on a background with the Yxy color 32.7401, 0.1990, 0.2229.

# 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

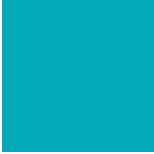
32.7401, 0.1990, 0.2229

### Protanopia

32.2685, 0.2362, 0.2253

### Deuteranopia

32.5944, 0.2197, 0.2141



## Tritanopia

32.5865, 0.2186, 0.3068

# Trichromacy



**Original Color**

32.7401, 0.1990, 0.2229

**Protanomaly**

31.6990, 0.2169, 0.2221

**Deuteranomaly**

32.1718, 0.2093, 0.2162

**Tritanomaly**

32.4104, 0.2101, 0.2728

# Monochromacy



**Original Color**

32.7401, 0.1990, 0.2229

**Achromatopsia**

23.8398, 0.3127, 0.3290

**Achromatomaly**

25.9004, 0.2499, 0.2847

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 32.7401, 0.1990, 0.2229 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(39, 163, 237)` looks like.

```
.text, #text, p{  
    color:rgb(39, 163, 237)  
}
```

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(39, 163, 237) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(39, 163, 237) }
```

## Border

The CSS property to change the border of an element to Yxy 32.7401, 0.1990, 0.2229 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(39, 163, 237) }
```

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

```
.border{ border-color:rgb(39, 163, 237) }
```

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

Here you see how a box with a 4 pixel `rgb(39, 163, 237)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(39, 163, 237); -webkit-box-  
shadow:4px 4px 4px 4px rgb(39, 163, 237);  
box-shadow:4px 4px 4px 4px rgb(39, 163,  
237) }
```



# Background

The CSS property to change the background color of an element to Yxy 32.7401, 0.1990, 0.2229 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(39, 163, 237) }
```

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

```
.background{ background-color: rgb(39, 163,  
237) }
```

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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