

# Converting Colors

$Y_{xy}(40.7494, 0.2207, 0.2249)$

Have a look what the booklet for  
Yxy(40.7494, 0.2207, 0.2249)  
contains.

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# Color

**Yxy(40.6845, 0.2207, 0.2248)**

# Conversions

## Conversions Part 1

Format	Color
Hex	72ADFF
RGB	114, 173, 255
RGB Percent	45%, 68%, 100%
CMY	0.5525, 0.3216, 0.0000
CMYK	0.55, 0.32, 0.00, 0.00
HSL	215°, 100%, 72%
HSV	215°, 55%, 100%
XYZ	39.9425, 40.6845, 100.3539
YIQ	164.7070, -61.4860, 12.9940

# Conversions

## Conversions Part 2

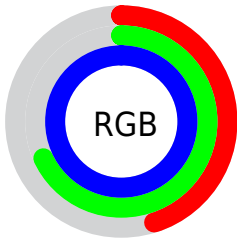
Format	Color
<a href="#">RYB</a>	<a href="#">114, 156, 255</a>
Decimal	<a href="#">7515647</a>
CIELab	<a href="#">69.95, 4.02, -46.44</a>
CIELCh	<a href="#">70, 46.612, 274.950</a>
Yxy	<a href="#">40.6845, 0.2207, 0.2248</a>
Android (android.graphics.Color)	<a href="#">4285705727</a> ( <a href="#">0xFF72ADFF</a> )
YUV	<a href="#">164.7070, 44.5144, -44.4700</a>
Hunter-Lab	<a href="#">63.7844, 0.1559, -48.6336</a>

# Details

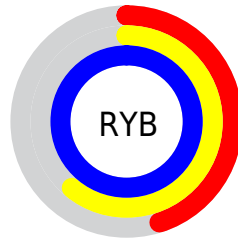
The Yxy color **40.6845, 0.2207, 0.2248** is a light color, and the websafe version is hex **6699FF**. A complement of this color would be **62.0121, 0.4253, 0.4117**, and the grayscale version is **37.2958, 0.3127, 0.3290**.

A 20% lighter version of the original color is **71.7055, 0.2635, 0.2987**, and **18.3803, 0.1970, 0.1984** is the 20% darker color. If you saturate the color by 10%, you get **33.8263, 0.2052, 0.2019**, and if you desaturate by 10%, it is **48.6546, 0.2374, 0.2471**.

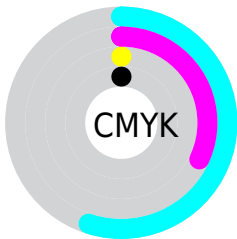
# Distribution



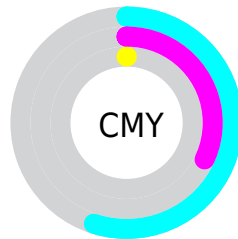
- Red (45%)
- Green (68%)
- Blue (100%)



- Red (45%)
- Yellow (61%)
- Blue (100%)



- Cyan (55%)
- Magenta (32%)
- Yellow (0%)
- Black (0%)




- Cyan (55%)
- Magenta (32%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.6845, 0.2207, 0.2248 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 40.6845, 0.2207, 0.2248 by changing the saturation by 10% instead.





 40.6845, 0.2207,  
0.2248


 40.6845, 0.2207,  
0.2248


349.0003, 0.2657,  
0.2751


 28.0726, 0.2101,  
0.2131


 76.2047, 0.2366,  
0.2425

 18.3804, 0.1970,  
0.1987

 99.8819, 0.2427,  
0.2493

 11.2235, 0.1803,  
0.1806


 128.0163, 0.2480,  
0.2552

 6.2173, 0.1589,  
0.1574

160.9922, 0.2525,  
0.2602

 2.9777, 0.1307,  
0.1273

199.1942, 0.2564,  
0.2647

 1.1201, 0.0938,  
0.0887

243.0067, 0.2599,

 0.0000, 0.0167,

0.2686

0.0000

292.8139, 0.2629,  
0.2720

0.0000, 0.0000,  
0.0000

40.6845, 0.2207,  
0.2248

40.6845, 0.2207,  
0.2248

33.8263, 0.2052,  
0.2019

48.6546, 0.2374,  
0.2471

28.0146, 0.1916,  
0.1791

57.7881, 0.2546,  
0.2681

23.1816, 0.1805,  
0.1572

68.1377, 0.2718,  
0.2876

19.2457, 0.1721,  
0.1370

79.7513, 0.2886,  
0.3054

17.6442, 0.1689,  
0.1281

92.6739, 0.3046,  
0.3213

99.9999, 0.3127,  
0.3290

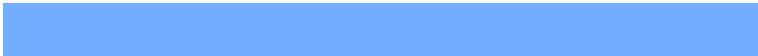
# Harmonies

## Analogous

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



40.6845, 0.1959, 0.2429



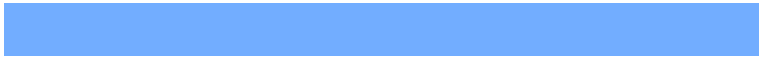
40.6845, 0.2207, 0.2248



40.6845, 0.2700, 0.2305

# Triad

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



40.6845, 0.2207, 0.2248



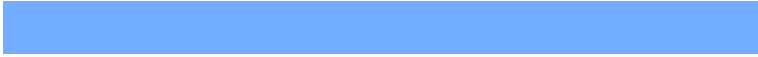
40.6845, 0.4437, 0.3477



40.6845, 0.2789, 0.4219

# Complementary

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



40.6845, 0.2207, 0.2248



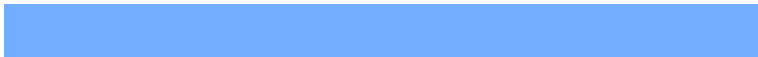
62.0121, 0.4253, 0.4117

# 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.



40.6845, 0.3445, 0.4536



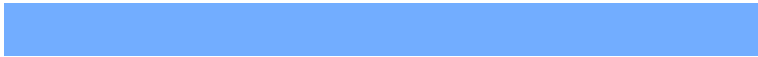
40.6845, 0.2207, 0.2248



40.6845, 0.4427, 0.3986

# Square

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



40.6845, 0.2207, 0.2248



40.6845, 0.4035, 0.2979



40.6845, 0.4048, 0.4401

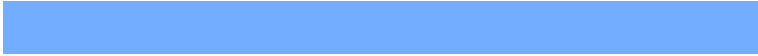


40.6845, 0.2259, 0.3551



# Rectangle

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



40.6845, 0.2207, 0.2248



40.6845, 0.3136, 0.2459



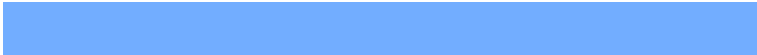
40.6845, 0.4048, 0.4401



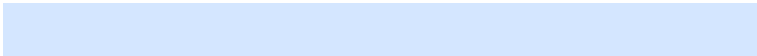
40.6845, 0.3002, 0.4376

# Sweetspot

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



40.6859, 0.2207, 0.2248



77.6283, 0.2857, 0.3024



78.9967, 0.2690, 0.4053



16.1038, 0.2823, 0.2989



0.0000, 0.0000, 0.0000

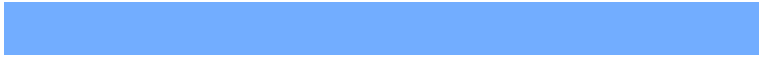


21.4041, 0.3127, 0.3290



# Same Dimension

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



40.6859, 0.2207, 0.2248



33.3563, 0.2041, 0.2002



23.5268, 0.2108, 0.1535



18.6250, 0.2979, 0.3148



9.4984, 0.1698, 0.1312



1.1348, 0.1759, 0.1533



# Inverse Universe

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



36.3353, 0.4066, 0.2696



30.4633, 0.4361, 0.2619



92.2585, 0.3860, 0.4644



18.1130, 0.3228, 0.3191



11.6868, 0.5311, 0.2699

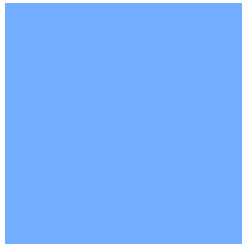


1.1591, 0.5016, 0.2537



# Previews

## White Background



This preview shows how the Yxy color 40.6845, 0.2207, 0.2248 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 40.6845, 0.2207, 0.2248 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

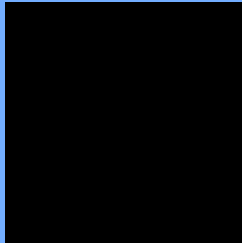
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

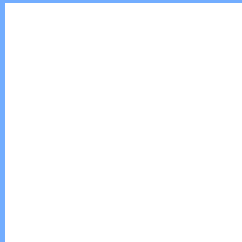
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 40.6845, 0.2207, 0.2248**

## **Background**



This preview shows how black text looks on a background with the Yxy color 40.6845, 0.2207, 0.2248.



This preview shows how white text looks on a background with the Yxy color 40.6845, 0.2207, 0.2248.

# 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

40.6845, 0.2207, 0.2248

### Protanopia

40.2903, 0.2366, 0.2257

### Deuteranopia

40.4212, 0.2283, 0.2218



## Tritanopia

40.7317, 0.2405, 0.3065

# Trichromacy



**Original Color**

40.6845, 0.2207, 0.2248

**Protanomaly**

40.3097, 0.2302, 0.2248

**Deuteranomaly**

40.3294, 0.2253, 0.2223

**Tritanomaly**

40.5237, 0.2329, 0.2738

# Monochromacy



**Original Color**

40.6845, 0.2207, 0.2248

**Achromatopsia**

37.6262, 0.3127, 0.3290

**Achromatomaly**

38.1935, 0.2708, 0.2869

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.6845, 0.2207, 0.2248 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(114, 173, 255)` looks like.

```
.text, #text, p{  
    color:rgb(114, 173, 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(114, 173, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(114, 173, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 40.6845, 0.2207, 0.2248 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(114, 173, 255) }
```

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

```
.border{ border-color:rgb(114, 173, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(114, 173, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(114, 173, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(114, 173, 255);  
box-shadow:4px 4px 4px 4px rgb(114, 173,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 40.6845, 0.2207, 0.2248 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(114, 173, 255) }
```

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

```
.background{ background-color: rgb(114,  
173, 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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