

Converting Colors

$Y_{xy}(22.7300, 0.2105, 0.1956)$

Have a look what the booklet for
Yxy(22.7300, 0.2105, 0.1956)
contains.

Yxy(22.8341, 0.2110, 0.1967)	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(22.8341, 0.2110, 0.1967)

Conversions

Conversions Part 1

Format	Color
Hex	5981D9
RGB	89, 129, 217
RGB Percent	35%, 51%, 85%
CMY	0.6509, 0.4941, 0.1490
CMYK	0.59, 0.41, 0.00, 0.15
HSL	221°, 63%, 60%
HSV	221°, 59%, 85%
XYZ	24.4941, 22.8341, 68.7577
YIQ	127.0720, -52.0880, 18.8880

Conversions

Conversions Part 2

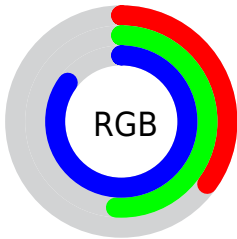
Format	Color
R _Y B	89, 119, 217
Decimal	5865945
CIE Lab	54.90, 12.58, -49.34
CIE LCh	55, 50.921, 284.298
Yxy	22.8341, 0.2110, 0.1967
Android (android.graphics.Color)	4284056025 (0xFF5981D9)
YUV	127.0720, 44.3345, -33.3891
Hunter-Lab	47.7850, 7.8735, -51.8626

Details

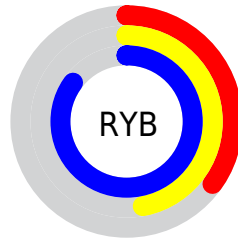
The Yxy color **22.8341, 0.2110, 0.1967** is a dark color, and the websafe version is hex **6699FF**. The color can be described as middle muted azure. A complement of this color would be **46.9181, 0.4228, 0.4299**, and the grayscale version is **21.1091, 0.3127, 0.3290**.

A 20% lighter version of the original color is **46.5636, 0.2406, 0.2394**, and **8.3686, 0.1789, 0.1590** is the 20% darker color. If you saturate the color by 10%, you get **18.2671, 0.1948, 0.1704**, and if you desaturate by 10%, it is **28.2928, 0.2286, 0.2230**.

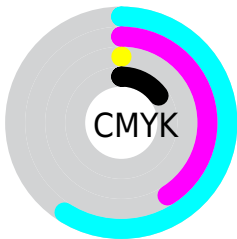
Distribution



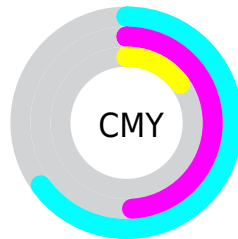
- Red (35%)
- Green (51%)
- Blue (85%)



- Red (35%)
- Yellow (47%)
- Blue (85%)



- Cyan (59%)
- Magenta (41%)
- Yellow (0%)
- Black (15%)



- Cyan (65%)
- Magenta (49%)
- Yellow (15%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 22.8341, 0.2110, 0.1967 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 22.8341, 0.2110, 0.1967 by changing the saturation by 10% instead.

■ 22.8341, 0.2110,
0.1967

■ 22.8341, 0.2110,
0.1967

266.8718, 0.2652,
0.2644

■ 14.4711, 0.1970,
0.1801

■ 48.1208, 0.2312,
0.2212

■ 8.4490, 0.1790,
0.1594

■ 65.8132, 0.2386,
0.2305

■ 4.3836, 0.1555,
0.1331

■ 87.3842, 0.2449,
0.2384

■ 1.8904, 0.1243,
0.0997

■ 113.2182, 0.2502,
0.2451

■ 0.5426, 0.0836,
0.0552

143.6995, 0.2548,
0.2509

■ 0.0000, 0.0000,
0.0000

179.2126, 0.2587,

0.2560

220.1419, 0.2622,
0.2604

■ 22.8341, 0.2110,
0.1967

■ 22.8341, 0.2110,
0.1967

■ 18.2671, 0.1948,
0.1704

■ 28.2928, 0.2286,
0.2230

■ 14.5361, 0.1809,
0.1452

■ 34.6894, 0.2468,
0.2483

■ 11.5813, 0.1699,
0.1223


■ 42.0693, 0.2649,
0.2721


■ 9.3201, 0.1621,
0.1028


■ 50.4742, 0.2824,
0.2938


■ 9.1200, 0.1614,
0.1010

■ 59.9430, 0.2989,
0.3133

 70.5128, 0.3142,
0.3307

 82.2185, 0.3283,
0.3460

 93.6224, 0.3361,
0.3599

 97.7895, 0.3352,
0.3661

Harmonies

Analogous

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



22.8341, 0.1716, 0.2074



22.8341, 0.2110, 0.1967



22.8341, 0.2811, 0.2126

Triad

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



22.8341, 0.2110, 0.1967



22.8341, 0.4898, 0.3675



22.8341, 0.2422, 0.4305

Complementary

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



22.8341, 0.2110, 0.1967



46.9181, 0.4228, 0.4299

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.



22.8341, 0.3227, 0.4921



22.8341, 0.2110, 0.1967



22.8341, 0.4679, 0.4312

Square

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



22.8341, 0.2110, 0.1967



22.8341, 0.4547, 0.3053



22.8341, 0.4050, 0.4834



22.8341, 0.1855, 0.3310

Rectangle

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



22.8341, 0.2110, 0.1967



22.8341, 0.3412, 0.2360



22.8341, 0.4050, 0.4834



22.8341, 0.2673, 0.4582

Sweetspot

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



22.8349, 0.2110, 0.1967



73.8019, 0.2837, 0.2954



54.9002, 0.2598, 0.3875



14.9939, 0.2787, 0.2893



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.



22.8349, 0.2110, 0.1967



24.7784, 0.1908, 0.1635



15.6321, 0.2156, 0.1476



13.2777, 0.2981, 0.3125



5.6879, 0.1621, 0.1035



0.5198, 0.1712, 0.1363

Inverse Universe

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



23.4825, 0.4354, 0.2828



27.7767, 0.4791, 0.2787



61.7515, 0.3770, 0.4776



13.1182, 0.3243, 0.3217



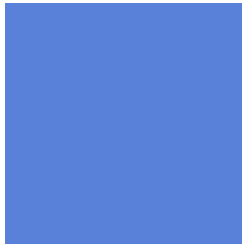
9.1980, 0.5706, 0.2917



0.6112, 0.5240, 0.2660

Previews

White Background



This preview shows how the Yxy color 22.8341, 0.2110, 0.1967 looks on a white background.

Color Contrast Check

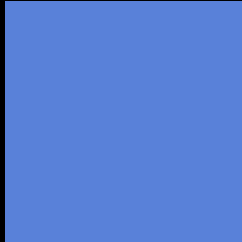
Large Text (above 18pt) WCAG AA ✓ Pass

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 22.8341, 0.2110, 0.1967 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

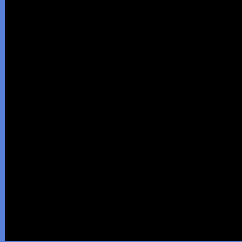
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

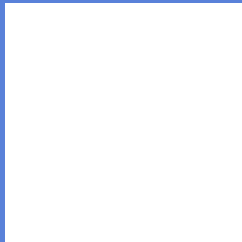
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 22.8341, 0.2110, 0.1967

Background



This preview shows how black text looks on a background with the Yxy color 22.8341, 0.2110, 0.1967.

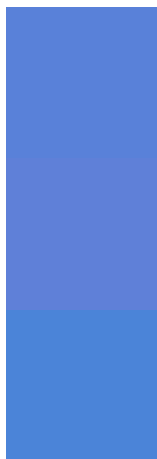


This preview shows how white text looks on a background with the Yxy color 22.8341, 0.2110, 0.1967.

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

22.8341, 0.2110, 0.1967

Protanopia

22.8291, 0.2146, 0.1973

Deuteranopia

22.9563, 0.2054, 0.2002



Tritanopia

22.7032, 0.2357, 0.3059

Trichromacy



Original Color

22.8341, 0.2110, 0.1967

Protanomaly

22.7234, 0.2134, 0.1969

Deuteranomaly

22.8959, 0.2074, 0.1994

Tritanomaly

22.4434, 0.2250, 0.2583

Monochromacy



Original Color

22.8341, 0.2110, 0.1967

Achromatopsia

21.2231, 0.3127, 0.3290

Achromatomaly

21.4871, 0.2654, 0.2731

CSS Examples

Text

The CSS property to change the color of the text to Yxy 22.8341, 0.2110, 0.1967 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(89, 129, 217)` looks like.

```
.text, #text, p{  
    color:rgb(89, 129, 217)  
}
```

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(89, 129, 217) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(89, 129, 217) }
```

Border

The CSS property to change the border of an element to Yxy 22.8341, 0.2110, 0.1967 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(89, 129, 217) }
```

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

```
.border{ border-color:rgb(89, 129, 217) }
```

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

Here you see how a box with a 4 pixel `rgb(89, 129, 217)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(89, 129, 217); -webkit-box-  
shadow:4px 4px 4px 4px rgb(89, 129, 217);  
box-shadow:4px 4px 4px 4px rgb(89, 129,  
217) }
```


Background

The CSS property to change the background color of an element to Yxy 22.8341, 0.2110, 0.1967 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(89, 129, 217) }
```

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

```
.background{ background-color: rgb(89, 129,  
217) }
```

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