

Converting Colors

$Y_{xy}(33.1584, 0.2006, 0.2320)$

Have a look what the booklet for
Yxy(33.1584, 0.2006, 0.2320)
contains.

Yxy(33.0598, 0.2004, 0.2313)	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(33.0598, 0.2004, 0.2313)

Conversions

Conversions Part 1

Format	Color
Hex	21A5E8
RGB	33, 165, 232
RGB Percent	13%, 65%, 91%
CMY	0.8716, 0.3529, 0.0901
CMYK	0.86, 0.29, 0.00, 0.09
HSL	200°, 81%, 52%
HSV	200°, 86%, 91%
XYZ	28.6433, 33.0598, 81.2273
YIQ	133.1700, -100.1790, -7.1470

Conversions

Conversions Part 2

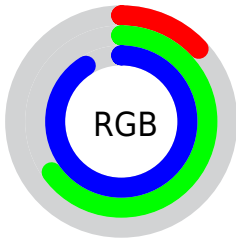
Format	Color
R _Y B	33, 112, 232
Decimal	2205160
CIE Lab	64.21, -10.51, -43.10
CIE LCh	64, 44.360, 256.297
Yxy	33.0598, 0.2004, 0.2313
Android (android.graphics.Color)	4280395240 (0xFF21A5E8)
YUV	133.1700, 48.7232, -87.8491
Hunter-Lab	57.4977, -11.6986, -43.5110

Details

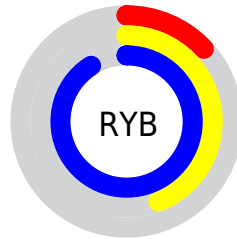
The Yxy color **33.0598, 0.2004, 0.2313** is a dark color, and the websafe version is hex **3399CC**. The color can be described as middle washed azure. A complement of this color would be **26.3353, 0.5527, 0.3821**, and the grayscale version is **23.3423, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.0512, 0.2341, 0.2864**, and **14.9448, 0.1911, 0.2078** is the 20% darker color. If you saturate the color by 10%, you get **30.0737, 0.1946, 0.2186**, and if you desaturate by 10%, it is **36.4823, 0.2083, 0.2443**.

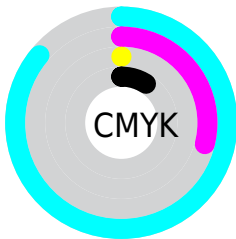
Distribution



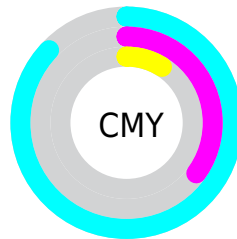
- Red (13%)
- Green (65%)
- Blue (91%)



- Red (13%)
- Yellow (44%)
- Blue (91%)



- Cyan (86%)
- Magenta (29%)
- Yellow (0%)
- Black (9%)



- Cyan (87%)
- Magenta (35%)
- Yellow (9%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 33.0598, 0.2004, 0.2313 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 33.0598, 0.2004, 0.2313 by changing the saturation by 10% instead.

■ 33.0598, 0.2004,
0.2313

■ 33.0598, 0.2004,
0.2313

■ 315.9191, 0.2562,
0.2815

■ 22.1723, 0.1871,
0.2188

■ 64.4689, 0.2203,
0.2496

■ 13.9835, 0.1705,
0.2030

■ 85.7592, 0.2279,
0.2565

■ 8.1092, 0.1495,
0.1826

■ 111.2859, 0.2344,
0.2623

■ 4.1649, 0.1225,
0.1555

■ 141.4334, 0.2400,
0.2672

■ 1.7662, 0.0881,
0.1193

■ 176.5861, 0.2448,
0.2715

■ 0.4660, 0.0263,
0.0657

217.1283, 0.2491,

■ 0.0000, 0.0000,

0.2753

0.0000

263.4445, 0.2529,
0.2786

■ 33.0598, 0.2004,
0.2313

■ 33.0598, 0.2004,
0.2313

■ 30.0737, 0.1946,
0.2186

■ 36.4823, 0.2083,
0.2443

■ 28.9375, 0.1926,
0.2134

■ 40.3878, 0.2182,
0.2573

■ 44.8180, 0.2299,
0.2700

■ 49.8084, 0.2432,
0.2823

■ 55.3903, 0.2575,
0.2940

■ 61.5924, 0.2726,
0.3049

■ 68.4413, 0.2881,
0.3149

■ 75.9615, 0.3037,
0.3241

■ 84.1762, 0.3190,
0.3323

Harmonies

Analogous

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



33.0598, 0.1916, 0.2663



33.0598, 0.2004, 0.2313



33.0598, 0.2352, 0.2226

Triad

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



33.0598, 0.2004, 0.2313



33.0598, 0.4252, 0.3157



33.0598, 0.3192, 0.4498

Complementary

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



33.0598, 0.2004, 0.2313



26.3353, 0.5527, 0.3821

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.



33.0598, 0.3848, 0.4520



33.0598, 0.2004, 0.2313



33.0598, 0.4509, 0.3677

Square

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



33.0598, 0.2004, 0.2313



33.0598, 0.3646, 0.2697



33.0598, 0.4342, 0.4175



33.0598, 0.2554, 0.4006

Rectangle

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



33.0598, 0.2004, 0.2313



33.0598, 0.2719, 0.2297



33.0598, 0.4342, 0.4175



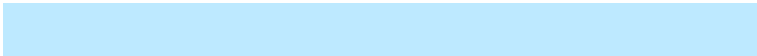
33.0598, 0.3418, 0.4558

Sweetspot

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



33.0609, 0.2004, 0.2313



76.1117, 0.2722, 0.3046



58.9462, 0.2828, 0.5252



15.7007, 0.2669, 0.3009



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.



33.0609, 0.2004, 0.2313



35.6898, 0.1924, 0.2127



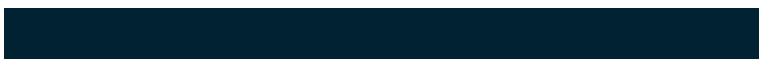
10.0387, 0.1639, 0.0960



15.4771, 0.2981, 0.3209



16.3039, 0.1932, 0.2154



1.3745, 0.1983, 0.2339

Inverse Universe

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



20.9498, 0.4100, 0.2115



24.1341, 0.4311, 0.2149



58.0249, 0.4430, 0.4766



14.5285, 0.3189, 0.3135



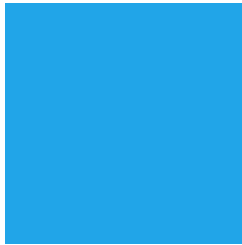
10.8436, 0.4282, 0.2132



0.8184, 0.4085, 0.2024

Previews

White Background



This preview shows how the Yxy color 33.0598, 0.2004, 0.2313 looks on a white background.

Color Contrast Check

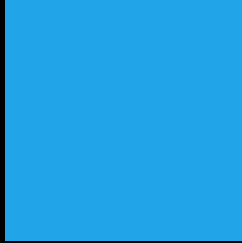
Large Text (above 18pt) WCAG AA × Fail

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 33.0598, 0.2004, 0.2313 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

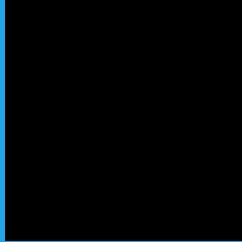
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

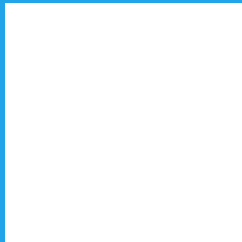
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 33.0598, 0.2004, 0.2313

Background



This preview shows how black text looks on a background with the Yxy color 33.0598, 0.2004, 0.2313.

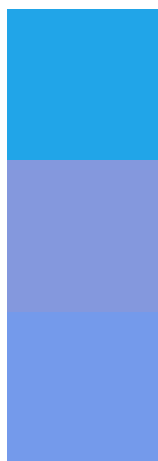


This preview shows how white text looks on a background with the Yxy color 33.0598, 0.2004, 0.2313.

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

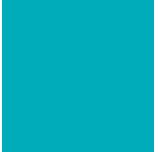
33.0598, 0.2004, 0.2313

Protanopia

32.5825, 0.2426, 0.2339

Deuteranopia

32.8224, 0.2254, 0.2192



Tritanopia

33.0078, 0.2186, 0.3069

Trichromacy



Original Color

33.0598, 0.2004, 0.2313

Protanomaly

32.0370, 0.2203, 0.2316

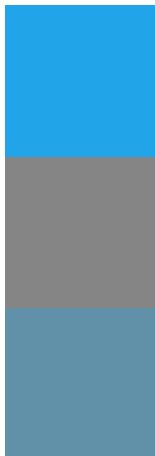
Deuteranomaly

32.3727, 0.2121, 0.2221

Tritanomaly

32.7184, 0.2108, 0.2759

Monochromacy



Original Color

33.0598, 0.2004, 0.2313

Achromatopsia

23.4551, 0.3127, 0.3290

Achromatomaly

25.6568, 0.2491, 0.2877

CSS Examples

Text

The CSS property to change the color of the text to Yxy 33.0598, 0.2004, 0.2313 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(33, 165, 232)` looks like.

```
.text, #text, p{  
    color:rgb(33, 165, 232)  
}
```

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(33, 165, 232) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 165, 232) }
```

Border

The CSS property to change the border of an element to Yxy 33.0598, 0.2004, 0.2313 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(33, 165, 232) }
```

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

```
.border{ border-color:rgb(33, 165, 232) }
```

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

Here you see how a box with a 4 pixel `rgb(33, 165, 232)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 165, 232); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 165, 232);  
box-shadow:4px 4px 4px 4px rgb(33, 165,  
232) }
```


Background

The CSS property to change the background color of an element to Yxy 33.0598, 0.2004, 0.2313 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 165, 232) }
```

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

```
.background{ background-color: rgb(33, 165,  
232) }
```

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