

Converting Colors

$Y_{xy}(21.6450, 0.1842, 0.2020)$

Have a look what the booklet for
Yxy(21.6450, 0.1842, 0.2020)
contains.

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Color

Yxy(22.1320, 0.1898, 0.2032)

Conversions

Conversions Part 1

Format	Color
Hex	0087D5
RGB	0, 135, 213
RGB Percent	0%, 53%, 84%
CMY	0.9992, 0.4706, 0.1648
CMYK	1.00, 0.37, 0.00, 0.16
HSL	202°, 100%, 42%
HSV	202°, 100%, 84%
XYZ	20.6725, 22.1320, 66.1128
YIQ	103.5270, -105.4980, -4.3620

Conversions

Conversions Part 2

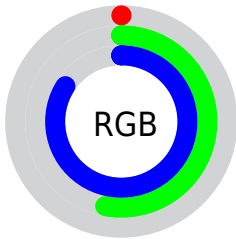
Format	Color
R _Y B	0, 83, 213
Decimal	34773
CIE Lab	54.17, -1.75, -48.38
CIE LCh	54, 48.412, 267.927
Yxy	22.1320, 0.1898, 0.2032
Android (android.graphics.Color)	4278224853 (0xFF0087D5)
YUV	103.5270, 53.9702, -90.7932
Hunter-Lab	47.0447, -3.8911, -50.3902

Details

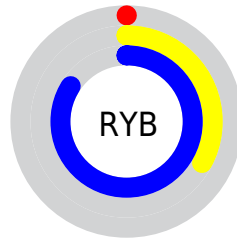
The Yxy color **22.1320, 0.1898, 0.2032** is a dark color, and the websafe version is hex **0099FF**. The color can be described as dark washed azure. A complement of this color would be **19.6152, 0.5803, 0.3773**, and the grayscale version is **13.6022, 0.3127, 0.3290**.

A 20% lighter version of the original color is **45.9531, 0.2195, 0.2436**, and **9.1242, 0.1819, 0.1747** is the 20% darker color. If you saturate the color by 10%, you get **22.1106, 0.1898, 0.2031**, and if you desaturate by 10%, it is **24.5546, 0.1954, 0.2170**.

Distribution



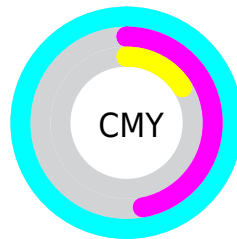
- Red (0%)
- Green (53%)
- Blue (84%)



- Red (0%)
- Yellow (33%)
- Blue (84%)



- Cyan (100%)
- Magenta (37%)
- Yellow (0%)
- Black (16%)



- Cyan (100%)
- Magenta (47%)
- Yellow (16%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 22.1320, 0.1898, 0.2032 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 22.1320, 0.1898, 0.2032 by changing the saturation by 10% instead.

■ 22.1320, 0.1898,
0.2032

■ 22.1320, 0.1898,
0.2032

263.2348, 0.2542,
0.2695

■ 13.9539, 0.1736,
0.1864

■ 46.9641, 0.2135,
0.2277

■ 8.0886, 0.1532,
0.1651

■ 64.3868, 0.2223,
0.2368

■ 4.1517, 0.1270,
0.1378

■ 85.6600, 0.2298,
0.2445

■ 1.7588, 0.0937,
0.1026

■ 111.1679, 0.2361,
0.2510

■ 0.4613, 0.0456,
0.0531

■ 141.2949, 0.2416,
0.2566

■ 0.0000, 0.0000,
0.0000

176.4255, 0.2464,

0.2615

216.9440, 0.2505,
0.2657

■ 22.1320, 0.1898,
0.2032

■ 22.1320, 0.1898,
0.2032

■ 22.1106, 0.1898,
0.2031

■ 24.5546, 0.1954,
0.2170

■ 27.3201, 0.2029,
0.2310

■ 30.4915, 0.2125,
0.2452

■ 34.1046, 0.2240,
0.2593

■ 38.1904, 0.2371,
0.2729

■ 42.7761, 0.2514,
0.2860

■ 47.8865, 0.2664,
0.2982

■ 53.5443, 0.2819,
0.3095

■ 59.7707, 0.2975,
0.3198

Harmonies

Analogous

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



22.1320, 0.1677, 0.2303



22.1320, 0.1898, 0.2032



22.1320, 0.2419, 0.2049

Triad

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



22.1320, 0.1898, 0.2032



22.1320, 0.4715, 0.3336



22.1320, 0.2861, 0.4661

Complementary

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



22.1320, 0.1898, 0.2032



19.6152, 0.5803, 0.3773

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.



22.1320, 0.3676, 0.4887



22.1320, 0.1898, 0.2032



22.1320, 0.4802, 0.3955

Square

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



22.1320, 0.1898, 0.2032



22.1320, 0.4098, 0.2762



22.1320, 0.4391, 0.4541



22.1320, 0.2162, 0.3838

Rectangle

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



22.1320, 0.1898, 0.2032



22.1320, 0.2924, 0.2197



22.1320, 0.4391, 0.4541



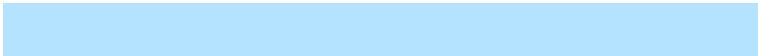
22.1320, 0.3131, 0.4814

Sweetspot

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



22.1327, 0.1898, 0.2032



71.6644, 0.2658, 0.2977



48.0783, 0.2857, 0.5483



14.6205, 0.2593, 0.2926



0.0000, 0.0000, 0.0000



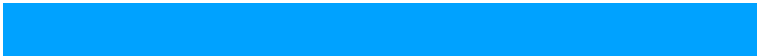
21.4041, 0.3127, 0.3290

Same Dimension

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



22.1327, 0.1898, 0.2032



32.9048, 0.1894, 0.2017



5.8433, 0.1532, 0.0715



13.3071, 0.2982, 0.3203



13.7110, 0.1903, 0.2051



0.9823, 0.1969, 0.2289

Inverse Universe

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



15.8954, 0.4417, 0.2207



23.8529, 0.4433, 0.2216



47.2123, 0.4487, 0.4818



12.5519, 0.3193, 0.3143



9.7290, 0.4396, 0.2195



0.6025, 0.4138, 0.2053

Previews

White Background



This preview shows how the Yxy color 22.1320, 0.1898, 0.2032 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 22.1320, 0.1898, 0.2032 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

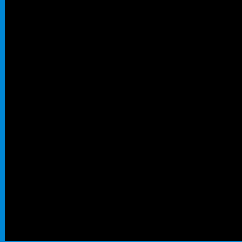
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

Yxy 22.1320, 0.1898, 0.2032

Background



This preview shows how black text looks on a background with the Yxy color 22.1320, 0.1898, 0.2032.



This preview shows how white text looks on a background with the Yxy color 22.1320, 0.1898, 0.2032.

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

22.1320, 0.1898, 0.2032

Protanopia

21.9821, 0.2221, 0.2067

Deuteranopia

22.1980, 0.2041, 0.1987



Tritanopia

21.9780, 0.2186, 0.3069

Trichromacy



Original Color

22.1320, 0.1898, 0.2032

Protanomaly

21.3113, 0.2022, 0.2025

Deuteranomaly

21.9384, 0.1953, 0.1991

Tritanomaly

21.8513, 0.2066, 0.2638

Monochromacy



Original Color

22.1320, 0.1898, 0.2032

Achromatopsia

13.8432, 0.3127, 0.3290

Achromatomaly

15.4333, 0.2332, 0.2684

CSS Examples

Text

The CSS property to change the color of the text to Yxy 22.1320, 0.1898, 0.2032 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(0, 135, 213)` looks like.

```
.text, #text, p{  
    color:rgb(0, 135, 213)  
}
```

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(0, 135, 213) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 135, 213) }
```

Border

The CSS property to change the border of an element to Yxy 22.1320, 0.1898, 0.2032 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(0, 135, 213) }
```

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

```
.border{ border-color:rgb(0, 135, 213) }
```

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

Here you see how a box with a 4 pixel rgb(0, 135, 213) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 135, 213); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 135, 213);  
box-shadow:4px 4px 4px 4px rgb(0, 135,  
213) }
```


Background

The CSS property to change the background color of an element to Yxy 22.1320, 0.1898, 0.2032 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 135, 213) }
```

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

```
.background{ background-color: rgb(0, 135,  
213) }
```

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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