

Converting Colors

$Y_{xy}(21.6122, 0.3082, 0.3199)$

Have a look what the booklet for
Yxy(21.6122, 0.3082, 0.3199)
contains.

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Color

Yxy(21.7210, 0.3073, 0.3201)

Conversions

Conversions Part 1

Format	Color
Hex	808085
RGB	128, 128, 133
RGB Percent	50%, 50%, 52%
CMY	0.4981, 0.4980, 0.4784
CMYK	0.04, 0.04, 0.00, 0.48
HSL	240°, 2%, 51%
HSV	240°, 4%, 52%
XYZ	20.8524, 21.7210, 25.2835
YIQ	128.5700, -1.6050, 1.5550

Conversions

Conversions Part 2

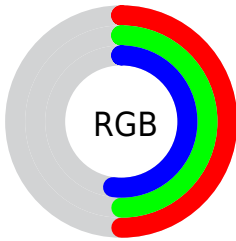
Format	Color
R_{YB}	128, 128, 133
Decimal	8421509
CIE Lab	53.73, 1.00, -2.71
CIE LCh	54, 2.885, 290.330
Yxy	21.7210, 0.3073, 0.3201
Android (android.graphics.Color)	4286611589 (0xFF808085)
YUV	128.5700, 2.1840, -0.4999
Hunter-Lab	46.6058, -1.6954, 0.4594

Details

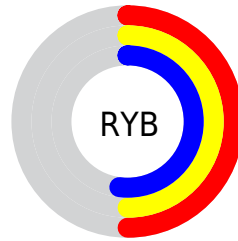
The Yxy color **21.7210, 0.3073, 0.3201** is a dark color, and the websafe version is hex **999999**. A complement of this color would be **23.3112, 0.3180, 0.3377**, and the grayscale version is **21.7870, 0.3127, 0.3290**.

A 20% lighter version of the original color is **46.4167, 0.3088, 0.3225**, and **7.8943, 0.3045, 0.3155** is the 20% darker color. If you saturate the color by 10%, you get **17.5303, 0.2916, 0.2943**, and if you desaturate by 10%, it is **26.4981, 0.3211, 0.3427**.

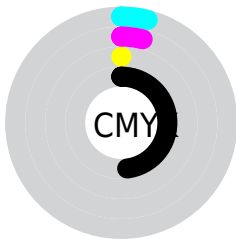
Distribution



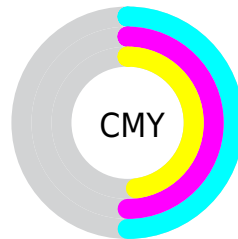
- Red (50%)
- Green (50%)
- Blue (52%)



- Red (50%)
- Yellow (50%)
- Blue (52%)



- Cyan (4%)
- Magenta (4%)
- Yellow (0%)
- Black (48%)



- Cyan (50%)
- Magenta (50%)
- Yellow (48%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 21.7210, 0.3073, 0.3201 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 21.7210, 0.3073, 0.3201 by changing the saturation by 10% instead.

■ 21.7210, 0.3073,
0.3201

■ 21.7210, 0.3073,
0.3201

261.0858, 0.3104,
0.3251

■ 13.6520, 0.3064,
0.3186

■ 46.2844, 0.3085,
0.3221

■ 7.8791, 0.3051,
0.3165

■ 63.5477, 0.3089,
0.3228

■ 4.0177, 0.3032,
0.3135

■ 84.6445, 0.3093,
0.3233

■ 1.6834, 0.3000,
0.3083

109.9593, 0.3096,
0.3238

■ 0.4129, 0.2839,
0.2812

139.8764, 0.3098,
0.3242

■ 0.0000, 0.0000,
0.0000

174.7803, 0.3100,

0.3246

215.0553, 0.3102,
0.3249

■ 21.7210, 0.3073,
0.3201

■ 21.7210, 0.3073,
0.3201

■ 17.5303, 0.2916,
0.2943

■ 26.4981, 0.3211,
0.3427

■ 13.9007, 0.2741,
0.2654

■ 31.8801, 0.3330,
0.3624

■ 10.8093, 0.2548,
0.2337

■ 37.8880, 0.3434,
0.3793

■ 8.2304, 0.2344,
0.2000

■ 44.5411, 0.3523,
0.3940

■ 6.1365, 0.2137,
0.1659

■ 51.8578, 0.3600,
0.4065

■ 4.4972, 0.1939,
0.1332

■ 59.8557, 0.3666,
0.4174

■ 3.2787, 0.1767,
0.1046

■ 68.5519, 0.3724,
0.4268

■ 2.4428, 0.1632,
0.0823

■ 77.9628, 0.3773,
0.4349

■ 1.9430, 0.1545,
0.0677

■ 88.1042, 0.3816,
0.4419

Harmonies

Analogous

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



21.7210, 0.3038, 0.3211



21.7210, 0.3073, 0.3201



21.7210, 0.3123, 0.3214

Triad

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



21.7210, 0.3073, 0.3201



21.7210, 0.3229, 0.3336



21.7210, 0.3080, 0.3334

Complementary

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



21.7210, 0.3073, 0.3201



23.3112, 0.3180, 0.3377

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.



21.7210, 0.3131, 0.3368



21.7210, 0.3073, 0.3201



21.7210, 0.3217, 0.3369

Square

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



21.7210, 0.3073, 0.3201



21.7210, 0.3214, 0.3291



21.7210, 0.3181, 0.3381



21.7210, 0.3042, 0.3288

Rectangle

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



21.7210, 0.3073, 0.3201



21.7210, 0.3158, 0.3234



21.7210, 0.3181, 0.3381



21.7210, 0.3096, 0.3347

Sweetspot

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



21.7219, 0.3073, 0.3201



41.1476, 0.3113, 0.3266



23.0538, 0.3072, 0.3291



9.2835, 0.3114, 0.3268



67.3860, 0.3127, 0.3290



9.4630, 0.3127, 0.3290

Same Dimension

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



21.7219, 0.3073, 0.3201



37.8349, 0.3053, 0.3168



21.9044, 0.3101, 0.3201



4.9145, 0.3048, 0.3160



1.6301, 0.1502, 0.0606



0.0059, 0.1509, 0.0632

Inverse Universe

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



21.9783, 0.3186, 0.3290



38.4516, 0.3208, 0.3290



23.1243, 0.3153, 0.3379



5.0007, 0.3214, 0.3289



4.7515, 0.6391, 0.3294



0.0165, 0.6346, 0.3270

Previews

White Background



This preview shows how the Yxy color 21.7210, 0.3073, 0.3201 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 21.7210, 0.3073, 0.3201 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

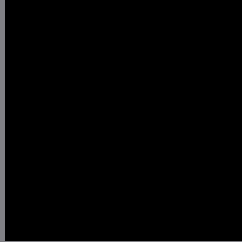
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

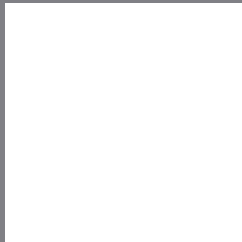
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 21.7210, 0.3073, 0.3201

Background



This preview shows how black text looks on a background with the Yxy color 21.7210, 0.3073, 0.3201.



This preview shows how white text looks on a background with the Yxy color 21.7210, 0.3073, 0.3201.

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

21.7210, 0.3073, 0.3201

Protanopia

21.7989, 0.3085, 0.3201

Deuteranopia

21.5398, 0.3183, 0.3118



Tritanopia

21.6520, 0.3043, 0.3114

Trichromacy



Original Color

21.7210, 0.3073, 0.3201

Protanomaly

21.7989, 0.3085, 0.3201

Deuteranomaly

21.4568, 0.3135, 0.3133

Tritanomaly

21.6234, 0.3053, 0.3131

Monochromacy



Original Color

21.7210, 0.3073, 0.3201

Achromatopsia

21.9526, 0.3127, 0.3290

Achromatomaly

21.9793, 0.3116, 0.3272

CSS Examples

Text

The CSS property to change the color of the text to Yxy 21.7210, 0.3073, 0.3201 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(128, 128, 133)` looks like.

```
.text, #text, p{  
    color:rgb(128, 128, 133)  
}
```

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(128, 128, 133) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 128, 133) }
```

Border

The CSS property to change the border of an element to Yxy 21.7210, 0.3073, 0.3201 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(128, 128, 133) }
```

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

```
.border{ border-color:rgb(128, 128, 133) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 128, 133)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 128, 133); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 128, 133);  
box-shadow:4px 4px 4px 4px rgb(128, 128,  
133) }
```


Background

The CSS property to change the background color of an element to Yxy 21.7210, 0.3073, 0.3201 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 128, 133) }
```

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

```
.background{ background-color: rgb(128,  
128, 133) }
```

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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