

Converting Colors

$Y_{xy}(21.8220, 0.3137, 0.3326)$

Have a look what the booklet for
Yxy(21.8220, 0.3137, 0.3326)
contains.

Yxy(21.8220, 0.3137, 0.3326)	3
Conversions	4
Details	6
Harmonies	12
Previews	23
Color Blindness Simulation	26
CSS Examples	29

Color

Yxy(21.8220, 0.3137, 0.3326)

Conversions

Conversions Part 1

Format	Color
Hex	80817F
RGB	128, 129, 127
RGB Percent	50%, 51%, 50%
CMY	0.4981, 0.4941, 0.5020
CMYK	0.01, 0.00, 0.02, 0.49
HSL	90°, 1%, 50%
HSV	90°, 2%, 51%
XYZ	20.5820, 21.8220, 23.2064
YIQ	128.4730, 0.0460, -0.8340

Conversions

Conversions Part 2

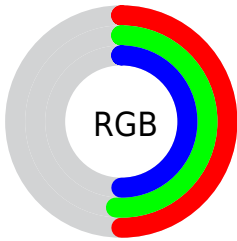
Format	Color
RYB	127, 129, 128
Decimal	8421759
CIELab	53.84, -0.77, 0.94
CIELCh	54, 1.219, 129.301
Yxy	21.8220, 0.3137, 0.3326
Android (android.graphics.Color)	4286611839 (0xFF80817F)
YUV	128.4730, -0.7262, -0.4148
Hunter-Lab	46.7140, -3.1033, 3.2460

Details

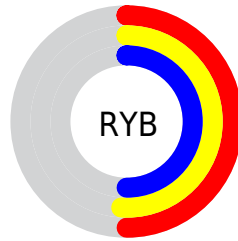
The Yxy color **21.8220, 0.3137, 0.3326** is a dark color, and the websafe version is hex **999999**. A complement of this color would be **21.3551, 0.3117, 0.3254**, and the grayscale version is **21.7619, 0.3127, 0.3290**.

A 20% lighter version of the original color is **46.5749, 0.3134, 0.3316**, and **7.9496, 0.3142, 0.3345** is the 20% darker color. If you saturate the color by 10%, you get **21.0168, 0.3201, 0.3570**, and if you desaturate by 10%, it is **22.7048, 0.3074, 0.3103**.

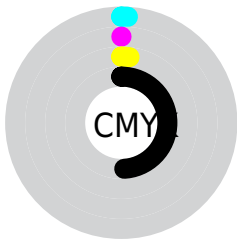
Distribution



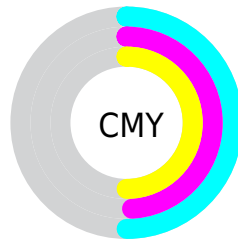
- Red (50%)
- Green (51%)
- Blue (50%)



- Red (50%)
- Yellow (51%)
- Blue (50%)



- Cyan (1%)
- Magenta (0%)
- Yellow (2%)
- Black (49%)



- Cyan (50%)
- Magenta (49%)
- Yellow (50%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 21.8220, 0.3137, 0.3326 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 21.8220, 0.3137, 0.3326 by changing the saturation by 10% instead.

■ 21.8220, 0.3137,
0.3326

■ 21.8220, 0.3137,
0.3326

■ 261.6153, 0.3132,
0.3306

■ 13.7262, 0.3139,
0.3332

■ 46.4516, 0.3135,
0.3318

■ 7.9305, 0.3141,
0.3340

■ 63.7542, 0.3134,
0.3315

■ 4.0505, 0.3144,
0.3353

■ 84.8945, 0.3133,
0.3313

■ 1.7018, 0.3150,
0.3374

■ 110.2569, 0.3133,
0.3311

■ 0.4248, 0.3191,
0.3521

■ 140.2258, 0.3133,
0.3309

■ 0.0000, 0.0000,
0.0000

175.1855, 0.3132,

0.3308

215.5206, 0.3132,
0.3307

■ 21.8220, 0.3137,
0.3326

■ 21.8220, 0.3137,
0.3326

■ 21.0168, 0.3201,
0.3570

■ 22.7048, 0.3074,
0.3103

■ 20.2843, 0.3263,
0.3833

■ 23.6646, 0.3014,
0.2901

■ 19.6229, 0.3322,
0.4112

■ 24.7044, 0.2956,
0.2719

■ 19.0302, 0.3374,
0.4399

■ 25.8261, 0.2901,
0.2557

■ 18.5036, 0.3415,
0.4687

■ 27.0315, 0.2850,
0.2411

■ 18.0402, 0.3443,
0.4963

■ 28.3226, 0.2802,
0.2282

■ 17.6367, 0.3452,
0.5214

■ 29.7011, 0.2758,
0.2166

■ 17.2899, 0.3441,
0.5425

■ 31.1686, 0.2717,
0.2063

■ 16.9957, 0.3411,
0.5588

■ 32.7269, 0.2680,
0.1971

Harmonies

Analogous

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



21.8220, 0.3157, 0.3328



21.8220, 0.3137, 0.3326



21.8220, 0.3115, 0.3315

Triad

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



21.8220, 0.3137, 0.3326



21.8220, 0.3086, 0.3261



21.8220, 0.3159, 0.3284

Complementary

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



21.8220, 0.3137, 0.3326



21.3551, 0.3117, 0.3254

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.



21.8220, 0.3140, 0.3266



21.8220, 0.3137, 0.3326



21.8220, 0.3098, 0.3253

Square

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



21.8220, 0.3137, 0.3326



21.8220, 0.3086, 0.3277



21.8220, 0.3117, 0.3255



21.8220, 0.3169, 0.3303

Rectangle

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



21.8220, 0.3137, 0.3326



21.8220, 0.3102, 0.3303



21.8220, 0.3117, 0.3255



21.8220, 0.3153, 0.3277

Sweetspot

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



21.8229, 0.3137, 0.3326



39.3123, 0.3127, 0.3290



21.6394, 0.3150, 0.3308



8.8982, 0.3127, 0.3290



65.5931, 0.3127, 0.3290

Same Dimension

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



21.8229, 0.3137, 0.3326



39.0016, 0.3140, 0.3338



21.7467, 0.3125, 0.3326



5.0519, 0.3139, 0.3332



16.3601, 0.3378, 0.5700



0.0000, 0.0000, 0.0000

Inverse Universe

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



21.3551, 0.3117, 0.3254



37.9012, 0.3114, 0.3242



21.4321, 0.3129, 0.3254



4.9252, 0.3115, 0.3248



2.6572, 0.2067, 0.0912



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the Yxy color 21.8220, 0.3137, 0.3326 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 21.8220, 0.3137, 0.3326 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

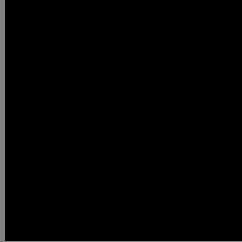
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

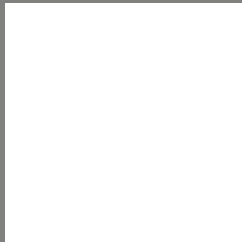
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 21.8220, 0.3137, 0.3326

Background



This preview shows how black text looks on a background with the Yxy color 21.8220, 0.3137, 0.3326.



This preview shows how white text looks on a background with the Yxy color 21.8220, 0.3137, 0.3326.

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

21.8220, 0.3137, 0.3326

Protanopia

21.7700, 0.3185, 0.3326

Deuteranopia

21.6365, 0.3289, 0.3222



Tritanopia

21.7307, 0.3054, 0.3114

Trichromacy



Original Color

21.8220, 0.3137, 0.3326

Protanomaly

21.6905, 0.3173, 0.3326

Deuteranomaly

21.7145, 0.3225, 0.3255

Tritanomaly

21.7989, 0.3085, 0.3201

Monochromacy



Original Color

21.8220, 0.3137, 0.3326

Achromatopsia

21.5861, 0.3127, 0.3290

Achromatomaly

21.5861, 0.3127, 0.3290

CSS Examples

Text

The CSS property to change the color of the text to Yxy 21.8220, 0.3137, 0.3326 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, 129, 127)` looks like.

```
.text, #text, p{  
    color:rgb(128, 129, 127)  
}
```

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, 129, 127) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 129, 127) }
```

Border

The CSS property to change the border of an element to Yxy 21.8220, 0.3137, 0.3326 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, 129, 127) }
```

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

```
.border{ border-color:rgb(128, 129, 127) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 129, 127)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 129, 127); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 129, 127);  
box-shadow:4px 4px 4px 4px rgb(128, 129,  
127) }
```

Background

The CSS property to change the background color of an element to Yxy 21.8220, 0.3137, 0.3326 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 129, 127) }
```

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

```
.background{ background-color: rgb(128,  
129, 127) }
```

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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