

Converting Colors

$Y_{xy}(21.6221, 0.3127, 0.3290)$

Have a look what the booklet for
Yxy(21.6221, 0.3127, 0.3290)
contains.

Yxy(21.5861, 0.3127, 0.3290)	3
Conversions	4
Details	6
Harmonies	12
Previews	23
Color Blindness Simulation	26
CSS Examples	29

Color

Yxy(21.5861, 0.3127, 0.3290)

Conversions

Conversions Part 1

Format	Color
Hex	808080
RGB	128, 128, 128
RGB Percent	50%, 50%, 50%
CMY	0.4981, 0.4980, 0.4980
CMYK	0.00, 0.00, 0.00, 0.50
HSL	174°, 0%, 50%
HSV	174°, 0%, 50%
XYZ	20.5166, 21.5861, 23.5085
YIQ	128.0000, -0.0000, -0.0000

Conversions

Conversions Part 2

Format	Color
R_{YB}	128, 128, 128
Decimal	8421504
CIE Lab	53.59, -0.00, -0.01
CIE LCh	54, 0.008, 259.964
Yxy	21.5861, 0.3127, 0.3290
Android (android.graphics.Color)	4286611584 (0xFF808080)
YUV	128.0000, 0.0000, 0.0000
Hunter-Lab	46.4608, -2.4827, 2.5227

Details

The Yxy color $21.5861, 0.3127, 0.3290$ is a dark color, and the websafe version is hex 999999 , and the color name is [gray](#). A complement of this color would be $21.5839, 0.3127, 0.3290$, and the grayscale version is $21.5865, 0.3127, 0.3290$.

A 20% lighter version of the original color is $46.2077, 0.3127, 0.3290$, and $7.8187, 0.3127, 0.3290$ is the 20% darker color. If you saturate the color by 10%, you get $20.6239, 0.2993, 0.3313$, and if you desaturate by 10%, it is $22.6758, 0.3265, 0.3269$.

Distribution



Red (50%)

Green (50%)

Blue (50%)



Red (50%)

Yellow (50%)

Blue (50%)



Cyan (0%)

Magenta (0%)

Yellow (0%)

Black (50%)



Cyan (50%)


Magenta (50%)


Yellow (50%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 21.5861, 0.3127, 0.3290 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 21.5861, 0.3127, 0.3290 by changing the saturation by 10% instead.


 21.5861, 0.3127,
0.3290


 21.5861, 0.3127,
0.3290


260.3771, 0.3127,
0.3290


 13.5531, 0.3127,
0.3290


 46.0610, 0.3127,
0.3290

 7.8105, 0.3127,
0.3290


 63.2716, 0.3127,
0.3290

 3.9739, 0.3127,
0.3290

 84.3102, 0.3127,
0.3290

 1.6590, 0.3127,
0.3290

109.5612, 0.3127,
0.3290

 0.3969, 0.3126,
0.3289

139.4090, 0.3127,
0.3290

 0.0000, 0.0000,
0.0000

174.2380, 0.3127,

0.3290

214.4326, 0.3127,
0.3290

■ 21.5861, 0.3127,
0.3290

■ 21.5861, 0.3127,
0.3290

■ 20.6239, 0.2993,
0.3313

■ 22.6758, 0.3265,
0.3269

■ 19.7818, 0.2865,
0.3338

■ 23.8945, 0.3405,
0.3251

■ 19.0558, 0.2746,
0.3365

■ 25.2475, 0.3545,
0.3234

■ 18.4405, 0.2639,
0.3393

■ 26.7387, 0.3683,
0.3220

■ 17.9303, 0.2546,
0.3423

■ 28.3720, 0.3818,
0.3207

■ 17.5190, 0.2469,
0.3454

■ 30.1510, 0.3948,
0.3196

■ 17.1997, 0.2409,
0.3486

■ 32.0793, 0.4074,
0.3187

■ 16.9649, 0.2366,
0.3518

■ 34.1604, 0.4194,
0.3179

■ 16.8054, 0.2342,
0.3550

■ 36.3974, 0.4308,
0.3173

Harmonies

Triad

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



21.5861, 0.3127, 0.3290



21.5861, 0.3128, 0.3290



21.5861, 0.3127, 0.3290

Complementary

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



21.5861, 0.3127, 0.3290



21.5839, 0.3127, 0.3290

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.



21.5861, 0.3127, 0.3290



21.5861, 0.3127, 0.3290



21.5861, 0.3128, 0.3290

Square

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



21.5861, 0.3127, 0.3290



21.5861, 0.3127, 0.3290



21.5861, 0.3128, 0.3290



21.5861, 0.3127, 0.3290

Rectangle

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



21.5861, 0.3127, 0.3290



21.5861, 0.3127, 0.3290



21.5861, 0.3128, 0.3290



21.5861, 0.3127, 0.3290

Sweetspot

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



21.5870, 0.3127, 0.3290



38.0056, 0.3127, 0.3290



21.5868, 0.3127, 0.3290



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.



21.5870, 0.3127, 0.3290



38.0056, 0.3127, 0.3290



21.5855, 0.3127, 0.3290



5.0876, 0.3127, 0.3290



16.5503, 0.2328, 0.3581



0.0000, 0.0000, 0.0000

Inverse Universe

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



21.5839, 0.3127, 0.3290



38.0056, 0.3127, 0.3290



21.5855, 0.3127, 0.3290



5.0876, 0.3127, 0.3290



4.5778, 0.6244, 0.3213



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the Yxy color 21.5861, 0.3127, 0.3290 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 21.5861, 0.3127, 0.3290 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 21.5861, 0.3127, 0.3290

Background



This preview shows how black text looks on a background with the Yxy color 21.5861, 0.3127, 0.3290.



This preview shows how white text looks on a background with the Yxy color 21.5861, 0.3127, 0.3290.

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

21.5861, 0.3127, 0.3290

Protanopia

21.4831, 0.3152, 0.3272

Deuteranopia

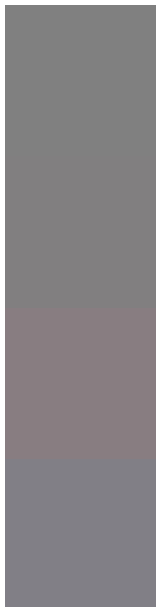
21.5757, 0.3265, 0.3204



Tritanopia

21.6520, 0.3043, 0.3114

Trichromacy



Original Color

21.5861, 0.3127, 0.3290

Protanomaly

21.4044, 0.3140, 0.3272

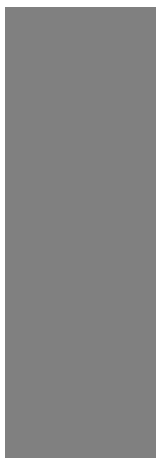
Deuteranomaly

21.4865, 0.3215, 0.3220

Tritanomaly

21.5671, 0.3075, 0.3166

Monochromacy



Original Color

21.5861, 0.3127, 0.3290

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 21.5861, 0.3127, 0.3290 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, 128)` looks like.

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

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, 128) colored shadow looks like.

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

Border

The CSS property to change the border of an element to Yxy 21.5861, 0.3127, 0.3290 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, 128) }
```

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

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

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, 128)` colored shadow looks like.

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

Background

The CSS property to change the background color of an element to Yxy 21.5861, 0.3127, 0.3290 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, 128) }
```

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

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

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