

Converting Colors

$Y_{xy}(31.6529, 0.3154, 0.3319)$

Have a look what the booklet for
Yxy(31.6529, 0.3154, 0.3319)
contains.

Yxy(31.7891, 0.3146, 0.3321)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	23
<i>Color Blindness Simulation</i>	26
<i>CSS Examples</i>	29

Color

Yxy(31.7891, 0.3146, 0.3321)

Conversions

Conversions Part 1

Format	Color
Hex	999997
RGB	153, 153, 151
RGB Percent	60%, 60%, 59%
CMY	0.4000, 0.4000, 0.4079
CMYK	0.00, 0.00, 0.01, 0.40
HSL	60°, 1%, 60%
HSV	60°, 1%, 60%
XYZ	30.1140, 31.7891, 33.8184
YIQ	152.7720, 0.6420, -0.6220

Conversions

Conversions Part 2

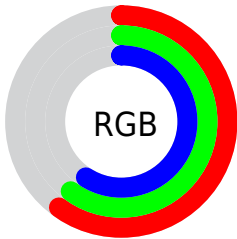
Format	Color
RYB	151, 153, 151
Decimal	10066327
CIELab	63.17, -0.38, 1.05
CIELCh	63, 1.119, 109.813
Yxy	31.7891, 0.3146, 0.3321
Android (android.graphics.Color)	4288256407 (0xFF999997)
YUV	152.7720, -0.8736, 0.2000
Hunter-Lab	56.3818, -3.3299, 3.9045

Details

The Yxy color **31.7891, 0.3146, 0.3321** is a light color, and the websafe version is hex **999999**. A complement of this color would be **31.0072, 0.3108, 0.3259**, and the grayscale version is **31.7553, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.2988, 0.3141, 0.3313**, and **13.2476, 0.3154, 0.3334** is the 20% darker color. If you saturate the color by 10%, you get **31.3076, 0.3291, 0.3560**, and if you desaturate by 10%, it is **32.3379, 0.3007, 0.3092**.

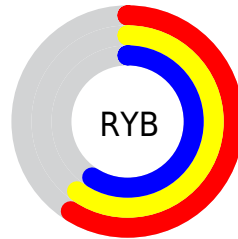
Distribution



Red (60%)

Green (60%)

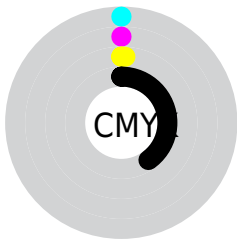
Blue (59%)



Red (59%)

Yellow (60%)

Blue (59%)

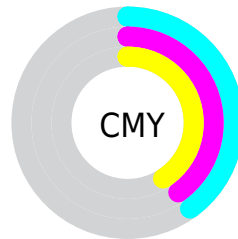


Cyan (0%)

Magenta (0%)

Yellow (1%)

Black (40%)



Cyan (40%)

Magenta (40%)

Yellow (41%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 31.7891, 0.3146, 0.3321 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 31.7891, 0.3146, 0.3321 by changing the saturation by 10% instead.

■ 31.7891, 0.3146,
0.3321

■ 31.7891, 0.3146,
0.3321

310.1574, 0.3136,
0.3305

■ 21.2005, 0.3149,
0.3325

■ 62.4803, 0.3142,
0.3315

■ 13.2706, 0.3152,
0.3331

■ 83.3517, 0.3141,
0.3313

■ 7.6152, 0.3157,
0.3340

108.4194, 0.3140,
0.3311

■ 3.8497, 0.3165,
0.3353

138.0679, 0.3139,
0.3309

■ 1.5898, 0.3178,
0.3374

172.6816, 0.3138,
0.3308

■ 0.3507, 0.3297,
0.3567

212.6448, 0.3137,

■ 0.0000, 0.0000,

0.3307

0.0000

258.3419, 0.3137,
0.3306

■ 31.7891, 0.3146,
0.3321

■ 31.7891, 0.3146,
0.3321

■ 31.3076, 0.3291,
0.3560

■ 32.3379, 0.3007,
0.3092

■ 30.8868, 0.3439,
0.3804

■ 32.9521, 0.2876,
0.2877

■ 30.5255, 0.3587,
0.4047

■ 33.6354, 0.2755,
0.2676

■ 30.2208, 0.3729,
0.4279

■ 34.3900, 0.2643,
0.2492

■ 29.9697, 0.3859,
0.4493

■ 35.2177, 0.2541,
0.2324

■ 29.7689, 0.3973,
0.4679

■ 36.1206, 0.2449,
0.2172

■ 29.6147, 0.4065,
0.4830

■ 36.9000, 0.2382,
0.2061

■ 29.5029, 0.4133,
0.4941

■ 36.9177, 0.2382,
0.2062

■ 29.4285, 0.4176,
0.5011

■ 36.9353, 0.2382,
0.2062

Harmonies

Analogous

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



31.7891, 0.3158, 0.3317



31.7891, 0.3146, 0.3321



31.7891, 0.3129, 0.3317

Triad

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



31.7891, 0.3146, 0.3321



31.7891, 0.3093, 0.3275



31.7891, 0.3143, 0.3275

Complementary

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



31.7891, 0.3146, 0.3321



31.0072, 0.3108, 0.3259

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.



31.7891, 0.3126, 0.3264



31.7891, 0.3146, 0.3321



31.7891, 0.3096, 0.3263

Square

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



31.7891, 0.3146, 0.3321



31.7891, 0.3098, 0.3290



31.7891, 0.3108, 0.3260



31.7891, 0.3157, 0.3290

Rectangle

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



31.7891, 0.3146, 0.3321



31.7891, 0.3117, 0.3310



31.7891, 0.3108, 0.3260



31.7891, 0.3138, 0.3271

Sweetspot

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



31.7905, 0.3146, 0.3321



57.0482, 0.3127, 0.3290



31.1353, 0.3147, 0.3290



12.5967, 0.3127, 0.3290



76.7769, 0.3127, 0.3290

Same Dimension

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



31.7905, 0.3146, 0.3321



56.8595, 0.3156, 0.3338



31.6978, 0.3136, 0.3321



7.3020, 0.3153, 0.3333



24.2826, 0.4199, 0.5048



0.3640, 0.4196, 0.5050

Inverse Universe

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



31.0072, 0.3108, 0.3259



54.7121, 0.3098, 0.3242



31.0991, 0.3118, 0.3259



7.0522, 0.3101, 0.3246



1.9115, 0.1501, 0.0603



0.0294, 0.1505, 0.0618

Previews

White Background



This preview shows how the Yxy color 31.7891, 0.3146, 0.3321 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 31.7891, 0.3146, 0.3321 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

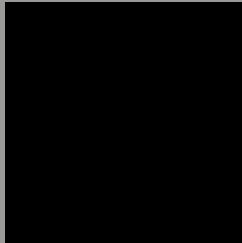
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

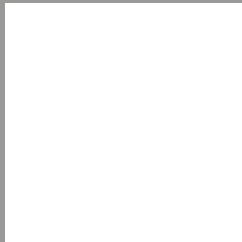
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 31.7891, 0.3146, 0.3321

Background



This preview shows how black text looks on a background with the Yxy color 31.7891, 0.3146, 0.3321.

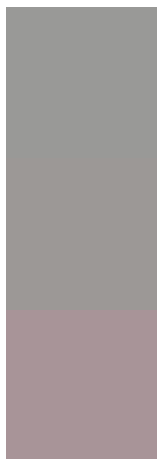


This preview shows how white text looks on a background with the Yxy color 31.7891, 0.3146, 0.3321.

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

31.7891, 0.3146, 0.3321

Protanopia

31.7264, 0.3186, 0.3321

Deuteranopia

31.7716, 0.3296, 0.3232



Tritanopia

31.7461, 0.3056, 0.3110

Trichromacy



Original Color

31.7891, 0.3146, 0.3321

Protanomaly

31.6270, 0.3176, 0.3321

Deuteranomaly

31.8662, 0.3241, 0.3261

Tritanomaly

31.8297, 0.3082, 0.3184

Monochromacy



Original Color

31.7891, 0.3146, 0.3321

Achromatopsia

31.8547, 0.3127, 0.3290

Achromatomaly

31.8218, 0.3136, 0.3305

CSS Examples

Text

The CSS property to change the color of the text to Yxy 31.7891, 0.3146, 0.3321 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(153, 153, 151)` looks like.

```
.text, #text, p{  
    color:rgb(153, 153, 151)  
}
```

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(153, 153, 151) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 153, 151) }
```

Border

The CSS property to change the border of an element to Yxy 31.7891, 0.3146, 0.3321 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(153, 153, 151) }
```

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

```
.border{ border-color:rgb(153, 153, 151) }
```

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

Here you see how a box with a 4 pixel `rgb(153, 153, 151)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 153, 151); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 153, 151);  
box-shadow:4px 4px 4px 4px rgb(153, 153,  
151) }
```

Background

The CSS property to change the background color of an element to Yxy 31.7891, 0.3146, 0.3321 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 153, 151) }
```

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

```
.background{ background-color: rgb(153,  
153, 151) }
```

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