

Converting Colors

$Y_{xy}(12.6959, 0.3130, 0.3222)$

Have a look what the booklet for
Yxy(12.6959, 0.3130, 0.3222)
contains.

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Color

Yxy(12.7078, 0.3130, 0.3224)

Conversions

Conversions Part 1

Format	Color
Hex	666366
RGB	102, 99, 102
RGB Percent	40%, 39%, 40%
CMY	0.6001, 0.6117, 0.6000
CMYK	0.00, 0.03, 0.00, 0.60
HSL	300°, 1%, 39%
HSV	300°, 3%, 40%
XYZ	12.3373, 12.7078, 14.3712
YIQ	100.2390, 0.8250, 1.5690

Conversions

Conversions Part 2

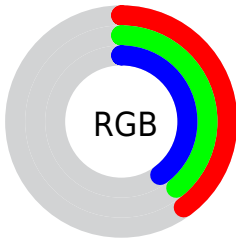
Format	Color
R_{YB}	102, 99, 102
Decimal	6710118
CIE Lab	42.32, 1.78, -1.28
CIE LCh	42, 2.194, 324.364
Yxy	12.7078, 0.3130, 0.3224
Android (android.graphics.Color)	4284900198 (0xFF666366)
YUV	100.2390, 0.8682, 1.5444
Hunter-Lab	35.6480, -0.6076, 1.0514

Details

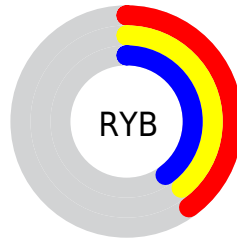
The Yxy color **12.7078, 0.3130, 0.3224** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **13.0568, 0.3124, 0.3357**, and the grayscale version is **12.8052, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.8849, 0.3129, 0.3244**, and **3.6343, 0.3131, 0.3216** is the 20% darker color. If you saturate the color by 10%, you get **10.8925, 0.3140, 0.2994**, and if you desaturate by 10%, it is **14.7683, 0.3120, 0.3446**.

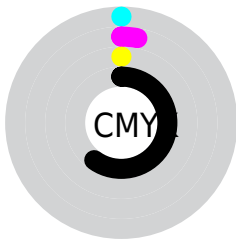
Distribution



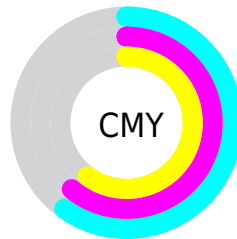
- Red (40%)
- Green (39%)
- Blue (40%)



- Red (40%)
- Yellow (39%)
- Blue (40%)



- Cyan (0%)
- Magenta (3%)
- Yellow (0%)
- Black (60%)



- Cyan (60%)
- Magenta (61%)
- Yellow (60%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.7078, 0.3130, 0.3224 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 12.7078, 0.3130, 0.3224 by changing the saturation by 10% instead.

■ 12.7078, 0.3130,
0.3224

■ 12.7078, 0.3130,
0.3224

209.0364, 0.3128,
0.3264

■ 7.2276, 0.3130,
0.3210

■ 30.7778, 0.3129,
0.3241

■ 3.6049, 0.3131,
0.3190

■ 44.1365, 0.3129,
0.3246

■ 1.4551, 0.3132,
0.3155

■ 60.8901, 0.3129,
0.3251

■ 0.2568, 0.3149,
0.2811

■ 81.4231, 0.3129,
0.3254

■ 0.0000, 0.0000,
0.0000

106.1198, 0.3129,
0.3257

135.3647, 0.3129,

0.3260

169.5421, 0.3128,
0.3262

■ 12.7078, 0.3130,
0.3224

■ 12.7078, 0.3130,
0.3224

■ 10.8925, 0.3140,
0.2994

■ 14.7683, 0.3120,
0.3446

■ 9.3118, 0.3150,
0.2759

■ 17.0810, 0.3111,
0.3656

■ 7.9565, 0.3159,
0.2527

■ 19.6545, 0.3103,
0.3853

■ 6.8163, 0.3168,
0.2304

■ 22.4968, 0.3094,
0.4035

■ 5.8802, 0.3177,
0.2099

■ 25.6153, 0.3087,
0.4202

■ 5.1361, 0.3183,
0.1919

■ 29.0171, 0.3080,
0.4355

■ 4.5706, 0.3189,
0.1770

■ 32.7092, 0.3074,
0.4494

■ 4.1687, 0.3192,
0.1658

■ 36.6983, 0.3068,
0.4620

■ 3.9080, 0.3194,
0.1582

■ 40.9909, 0.3063,
0.4733

Harmonies

Analogous

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



12.7078, 0.3084, 0.3209



12.7078, 0.3130, 0.3224



12.7078, 0.3176, 0.3256

Triad

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



12.7078, 0.3130, 0.3224



12.7078, 0.3206, 0.3364



12.7078, 0.3046, 0.3282

Complementary

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



12.7078, 0.3130, 0.3224



13.0568, 0.3124, 0.3357

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.



12.7078, 0.3078, 0.3325



12.7078, 0.3130, 0.3224



12.7078, 0.3171, 0.3372

Square

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



12.7078, 0.3130, 0.3224



12.7078, 0.3220, 0.3337



12.7078, 0.3124, 0.3358



12.7078, 0.3035, 0.3243

Rectangle

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



12.7078, 0.3130, 0.3224



12.7078, 0.3200, 0.3283



12.7078, 0.3124, 0.3358



12.7078, 0.3055, 0.3297

Sweetspot

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



12.7083, 0.3130, 0.3224



22.9421, 0.3128, 0.3267



12.5476, 0.3087, 0.3224



5.4196, 0.3128, 0.3269



53.8236, 0.3127, 0.3290



5.4972, 0.3127, 0.3290

Same Dimension

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



12.7083, 0.3130, 0.3224



21.8893, 0.3131, 0.3197



12.6810, 0.3150, 0.3256



3.0933, 0.3131, 0.3189



4.8147, 0.3195, 0.1534



25.0970, 0.3194, 0.1533

Inverse Universe

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



12.6516, 0.3171, 0.3290



21.7502, 0.3190, 0.3290



13.0837, 0.3105, 0.3324



3.0720, 0.3195, 0.3290



3.6294, 0.6390, 0.3294



18.9246, 0.6396, 0.3297

Previews

White Background



This preview shows how the Yxy color 12.7078, 0.3130, 0.3224 looks on a white 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

Black Background



This preview shows how the Yxy color 12.7078, 0.3130, 0.3224 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

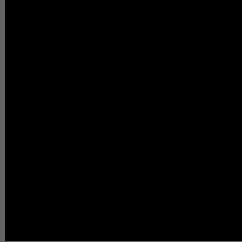
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.7078, 0.3130, 0.3224

Background



This preview shows how black text looks on a background with the Yxy color 12.7078, 0.3130, 0.3224.



This preview shows how white text looks on a background with the Yxy color 12.7078, 0.3130, 0.3224.

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

12.7078, 0.3130, 0.3224

Protanopia

12.6497, 0.3116, 0.3223

Deuteranopia

12.6968, 0.3223, 0.3182



Tritanopia

12.6595, 0.3091, 0.3115

Trichromacy



Original Color

12.7078, 0.3130, 0.3224

Protanomaly

12.6497, 0.3116, 0.3223

Deuteranomaly

12.7588, 0.3191, 0.3203

Tritanomaly

12.6389, 0.3105, 0.3137

Monochromacy



Original Color

12.7078, 0.3130, 0.3224

Achromatopsia

12.7438, 0.3127, 0.3290

Achromatomaly

12.8206, 0.3128, 0.3268

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.7078, 0.3130, 0.3224 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(102, 99, 102)` looks like.

```
.text, #text, p{  
    color:rgb(102, 99, 102)  
}
```

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(102, 99, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 99, 102) }
```

Border

The CSS property to change the border of an element to Yxy 12.7078, 0.3130, 0.3224 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(102, 99, 102) }
```

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

```
.border{ border-color:rgb(102, 99, 102) }
```

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

Here you see how a box with a 4 pixel rgb(102, 99, 102) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 99, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 99, 102);  
box-shadow:4px 4px 4px 4px rgb(102, 99,  
102) }
```


Background

The CSS property to change the background color of an element to Yxy 12.7078, 0.3130, 0.3224 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 99, 102) }
```

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

```
.background{ background-color: rgb(102, 99,  
102) }
```

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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