

Converting Colors

$Y_{xy}(12.8775, 0.2874, 0.1691)$

Have a look what the booklet for
Yxy(12.8775, 0.2874, 0.1691)
contains.

Yxy(12.8775, 0.2874, 0.1691)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(12.8775, 0.2874, 0.1691)

Conversions

Conversions Part 1

Format	Color
Hex	963DAE
RGB	150, 61, 174
RGB Percent	59%, 24%, 68%
CMY	0.4118, 0.7608, 0.3175
CMYK	0.14, 0.65, 0.00, 0.32
HSL	287°, 48%, 46%
HSV	287°, 65%, 68%
XYZ	21.8864, 12.8775, 41.3892
YIQ	100.4930, 16.7710, 54.0110

Conversions

Conversions Part 2

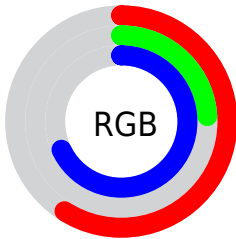
Format	Color
R _Y B	150, 61, 174
Decimal	9846190
CIE Lab	42.58, 53.97, -43.88
CIE LCh	43, 69.562, 320.888
Yxy	12.8775, 0.2874, 0.1691
Android (android.graphics.Color)	4288036270 (0xFF963DAE)
YUV	100.4930, 36.2390, 43.4176
Hunter-Lab	35.8852, 46.0681, -43.2641

Details

The Yxy color **12.8775, 0.2874, 0.1691** is a dark color, and the websafe version is hex **993399**. A complement of this color would be **32.5523, 0.3186, 0.5255**, and the grayscale version is **12.7795, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.0132, 0.2961, 0.1995**, and **3.8134, 0.2690, 0.1255** is the 20% darker color. If you saturate the color by 10%, you get **10.9663, 0.2819, 0.1513**, and if you desaturate by 10%, it is **15.4036, 0.2927, 0.1905**.

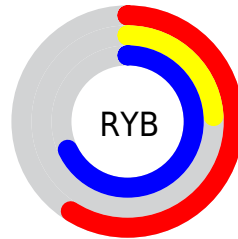
Distribution



Red (59%)

Green (24%)

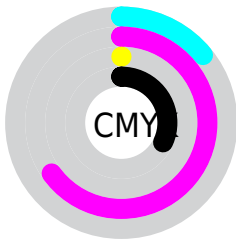
Blue (68%)



Red (59%)

Yellow (24%)

Blue (68%)

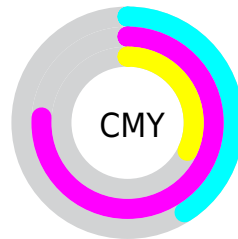


Cyan (14%)

Magenta (65%)

Yellow (0%)

Black (32%)



Cyan (41%)


Magenta (76%)

Yellow (32%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.8775, 0.2874, 0.1691 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 12.8775, 0.2874, 0.1691 by changing the saturation by 10% instead.


 12.8775, 0.2874,
0.1691


 12.8775, 0.2874,
0.1691

210.1311, 0.3059,
0.2524


 7.3442, 0.2804,
0.1483


 31.0835, 0.2958,
0.1997


 3.6783, 0.2698,
0.1221


 44.5251, 0.2984,
0.2111


 1.4953, 0.2528,
0.0894

 61.3716, 0.3004,
0.2208

 0.2854, 0.2269,
0.0354

 82.0073, 0.3020,
0.2290

 0.0000, 0.1633,
0.0000

 106.8167, 0.3033,
0.2361

 0.0000, 0.0000,
0.0000

136.1843, 0.3043,

0.2423

170.4942, 0.3051,
0.2477

■ 12.8775, 0.2874,
0.1691

■ 12.8775, 0.2874,
0.1691

■ 10.9663, 0.2819,
0.1513

■ 15.4036, 0.2927,
0.1905

■ 9.6074, 0.2762,
0.1377

■ 18.5958, 0.2975,
0.2146

■ 8.7269, 0.2706,
0.1286

■ 22.5017, 0.3019,
0.2401

■ 8.3764, 0.2678,
0.1249

■ 27.1640, 0.3057,
0.2663

■ 32.6221, 0.3089,
0.2922

■ 38.9125, 0.3116,
0.3171

■ 46.0697, 0.3138,
0.3407

■ 54.1259, 0.3155,
0.3627

■ 63.1120, 0.3168,
0.3829

Harmonies

Analogous

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



12.8775, 0.1775, 0.1410



12.8775, 0.2874, 0.1691



12.8775, 0.4404, 0.2251

Triad

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



12.8775, 0.2874, 0.1691



12.8775, 0.5130, 0.4748



12.8775, 0.1114, 0.2863

Complementary

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



12.8775, 0.2874, 0.1691



32.5523, 0.3186, 0.5255

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.



12.8775, 0.1716, 0.4680



12.8775, 0.2874, 0.1691



12.8775, 0.3999, 0.5738

Square

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



12.8775, 0.2874, 0.1691



12.8775, 0.5807, 0.3778



12.8775, 0.2785, 0.6028



12.8775, 0.0980, 0.1828

Rectangle

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



12.8775, 0.2874, 0.1691



12.8775, 0.5317, 0.2728



12.8775, 0.2785, 0.6028



12.8775, 0.1255, 0.3401

Sweetspot

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



12.8780, 0.2874, 0.1691



54.6248, 0.3076, 0.2809



10.6244, 0.1980, 0.1637



11.5302, 0.3066, 0.2736



89.0005, 0.3127, 0.3290



17.0645, 0.3127, 0.3290

Same Dimension

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



12.8780, 0.2874, 0.1691



18.6756, 0.2793, 0.1447



14.2929, 0.3672, 0.2186



8.0608, 0.3105, 0.3064



6.0997, 0.2684, 0.1252



0.1909, 0.2853, 0.1345

Inverse Universe

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



12.9964, 0.4744, 0.2968



19.2955, 0.5324, 0.2974



32.0651, 0.2857, 0.4811



8.0422, 0.3254, 0.3242



6.6311, 0.6005, 0.3082



0.1923, 0.5202, 0.2639

Previews

White Background



This preview shows how the Yxy color 12.8775, 0.2874, 0.1691 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 12.8775, 0.2874, 0.1691 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

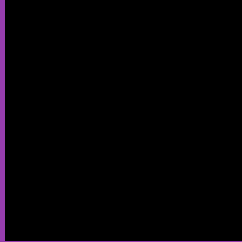
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.8775, 0.2874, 0.1691

Background



This preview shows how black text looks on a background with the Yxy color 12.8775, 0.2874, 0.1691.



This preview shows how white text looks on a background with the Yxy color 12.8775, 0.2874, 0.1691.

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

12.8775, 0.2874, 0.1691

Protanopia

13.0544, 0.1739, 0.1461

Deuteranopia

13.2226, 0.2077, 0.2030



Tritanopia

12.9173, 0.3918, 0.3181

Trichromacy



Original Color

12.8775, 0.2874, 0.1691

Protanomaly

11.0930, 0.1855, 0.1410

Deuteranomaly

11.9940, 0.2263, 0.1800

Tritanomaly

12.5525, 0.3502, 0.2513

Monochromacy



Original Color

12.8775, 0.2874, 0.1691

Achromatopsia

12.7438, 0.3127, 0.3290

Achromatomaly

12.0394, 0.3029, 0.2493

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.8775, 0.2874, 0.1691 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(150, 61, 174)` looks like.

```
.text, #text, p{  
    color:rgb(150, 61, 174)  
}
```

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(150, 61, 174) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(150, 61, 174) }
```

Border

The CSS property to change the border of an element to Yxy 12.8775, 0.2874, 0.1691 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(150, 61, 174) }
```

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

```
.border{ border-color:rgb(150, 61, 174) }
```

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

Here you see how a box with a 4 pixel `rgb(150, 61, 174)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(150, 61, 174); -webkit-box-  
shadow:4px 4px 4px 4px rgb(150, 61, 174);  
box-shadow:4px 4px 4px 4px rgb(150, 61,  
174) }
```


Background

The CSS property to change the background color of an element to Yxy 12.8775, 0.2874, 0.1691 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(150, 61, 174) }
```

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

```
.background{ background-color: rgb(150, 61,  
174) }
```

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