

Converting Colors

$Y_{xy}(29.7202, 0.3397, 0.1753)$

Have a look what the booklet for
Yxy(29.7202, 0.3397, 0.1753)
contains.

Yxy(29.6838, 0.3400, 0.1753)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(29.6838, 0.3400, 0.1753)

Conversions

Conversions Part 1

Format	Color
Hex	FF33EC
RGB	255, 51, 236
RGB Percent	100%, 20%, 93%
CMY	0.0000, 0.8002, 0.0744
CMYK	0.00, 0.80, 0.07, 0.00
HSL	306°, 100%, 60%
HSV	306°, 80%, 100%
XYZ	57.5727, 29.6838, 82.0749
YIQ	133.0860, 62.1990, 100.7830

Conversions

Conversions Part 2

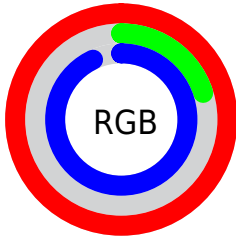
Format	Color
R _Y B	255, 51, 236
Decimal	16724972
CIE _{Lab}	61.38, 89.52, -48.60
CIE _{LCh}	61, 101.861, 331.501
Yxy	29.6838, 0.3400, 0.1753
Android (android.graphics.Color)	4294915052 (0xFFFF33EC)
YUV	133.0860, 50.7366, 106.9186
Hunter-Lab	54.4828, 93.2782, -51.1786

Details

The Yxy color **29.6838, 0.3400, 0.1753** is a light color, and the websafe version is hex **FF33FF**. The color can be described as light washed magenta. A complement of this color would be **72.6638, 0.2971, 0.5647**, and the grayscale version is **23.2740, 0.3127, 0.3290**.

A 20% lighter version of the original color is **42.3991, 0.3186, 0.2039**, and **14.7240, 0.3414, 0.1654** is the 20% darker color. If you saturate the color by 10%, you get **27.8958, 0.3433, 0.1698**, and if you desaturate by 10%, it is **32.6883, 0.3364, 0.1853**.

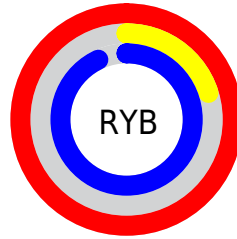
Distribution



Red (100%)

Green (20%)

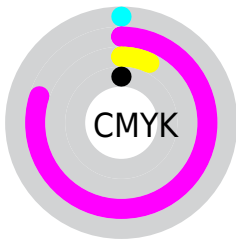
Blue (93%)



Red (100%)

Yellow (20%)

Blue (93%)

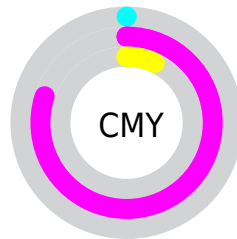


Cyan (0%)

Magenta (80%)

Yellow (7%)

Black (0%)



Cyan (0%)


Magenta (80%)


Yellow (7%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 29.6838, 0.3400, 0.1753 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 29.6838, 0.3400, 0.1753 by changing the saturation by 10% instead.


 29.6838, 0.3400,
0.1753


 29.6838, 0.3400,
0.1753


300.4278, 0.3303,
0.2447

 19.5987, 0.3413,
0.1604


 59.1618, 0.3373,
0.1987

 12.1037, 0.3424,
0.1426


 79.3234, 0.3361,
0.2080


 6.8143, 0.3430,
0.1213


 103.6127, 0.3349,
0.2162

 3.3463, 0.3422,
0.0957

 132.4141, 0.3339,
0.2233

 1.3151, 0.3385,
0.0655

 166.1119, 0.3329,
0.2296

 0.1528, 0.3336,
0.0151

205.0905, 0.3320,

 0.0000, 0.3020,

0.2352

0.0000

249.7343, 0.3311,
0.2402

■ 0.0000, 0.1624,
0.0000

■ 0.0000, 0.0000,
0.0000

■ 29.6838, 0.3400,
0.1753

■ 29.6838, 0.3400,
0.1753

■ 27.8958, 0.3433,
0.1698


■ 32.6883, 0.3364,
0.1853


■ 27.0461, 0.3463,
0.1681


■ 37.0909, 0.3327,
0.1996

■ 43.0358, 0.3289,
0.2175

■ 50.6512, 0.3252,
0.2381

 60.0517, 0.3216,
0.2604

 71.3418, 0.3184,
0.2835

 84.6179, 0.3154,
0.3065

99.9701, 0.3127,
0.3290

100.0000, 0.3127,
0.3290

Harmonies

Analogous

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



29.6838, 0.2008, 0.1355



29.6838, 0.3400, 0.1753



29.6838, 0.5107, 0.2416

Triad

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



29.6838, 0.3400, 0.1753



29.6838, 0.4789, 0.5162



29.6838, 0.0881, 0.2291

Complementary

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



29.6838, 0.3400, 0.1753



72.6638, 0.2971, 0.5647

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.



29.6838, 0.1288, 0.4042



29.6838, 0.3400, 0.1753



29.6838, 0.3503, 0.6209

Square

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



29.6838, 0.3400, 0.1753



29.6838, 0.5791, 0.4051



29.6838, 0.2253, 0.6054



29.6838, 0.0888, 0.1499

Rectangle

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



29.6838, 0.3400, 0.1753



29.6838, 0.5886, 0.2924



29.6838, 0.2253, 0.6054



29.6838, 0.0960, 0.2754

Sweetspot

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



29.6815, 0.3400, 0.1753



66.6135, 0.3196, 0.2743



10.8110, 0.1689, 0.0845



13.4085, 0.3208, 0.2660



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

Same Dimension

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



29.6815, 0.3400, 0.1753



27.3214, 0.3451, 0.1685



25.4004, 0.4783, 0.2592



18.2695, 0.3152, 0.3077



14.1442, 0.3458, 0.1679



1.3853, 0.3427, 0.1661

Inverse Universe

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



29.6815, 0.3400, 0.1753



27.3214, 0.3451, 0.1685



75.1241, 0.2615, 0.4427



18.2695, 0.3152, 0.3077



14.1442, 0.3458, 0.1679



1.3853, 0.3427, 0.1661

Previews

White Background



This preview shows how the Yxy color 29.6838, 0.3400, 0.1753 looks on a white background.

Color Contrast Check

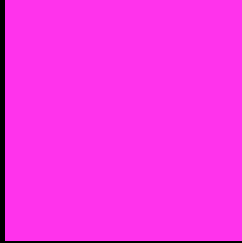
Large Text (above 18pt) WCAG AA ✓ Pass

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 29.6838, 0.3400, 0.1753 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

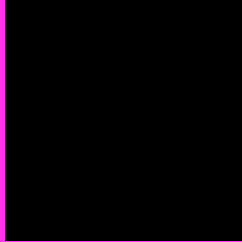
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

Yxy 29.6838, 0.3400, 0.1753

Background



This preview shows how black text looks on a background with the Yxy color 29.6838, 0.3400, 0.1753.



This preview shows how white text looks on a background with the Yxy color 29.6838, 0.3400, 0.1753.

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

29.6838, 0.3400, 0.1753

Protanopia

30.0675, 0.2051, 0.1857

Deuteranopia

30.0849, 0.2286, 0.2230



Tritanopia

29.4627, 0.4839, 0.3234

Trichromacy



Original Color

29.6838, 0.3400, 0.1753



Protanomaly

25.1148, 0.2362, 0.1641



Deuteranomaly

25.4110, 0.2581, 0.1851



Tritanomaly

28.3272, 0.4319, 0.2583

Monochromacy



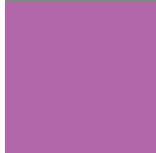
Original Color

29.6838, 0.3400, 0.1753



Achromatopsia

23.4551, 0.3127, 0.3290



Achromatomaly

21.9499, 0.3256, 0.2364

CSS Examples

Text

The CSS property to change the color of the text to Yxy 29.6838, 0.3400, 0.1753 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(255, 51, 236)` looks like.

```
.text, #text, p{  
    color:rgb(255, 51, 236)  
}
```

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(255, 51, 236) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 51, 236) }
```

Border

The CSS property to change the border of an element to Yxy 29.6838, 0.3400, 0.1753 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(255, 51, 236) }
```

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

```
.border{ border-color:rgb(255, 51, 236) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 51, 236)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 51, 236); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 51, 236);  
box-shadow:4px 4px 4px 4px rgb(255, 51,  
236) }
```


Background

The CSS property to change the background color of an element to Yxy 29.6838, 0.3400, 0.1753 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 51, 236) }
```

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

```
.background{ background-color: rgb(255, 51,  
236) }
```

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