

Converting Colors

$Y_{xy}(13.5804, 0.3307, 0.1980)$

Have a look what the booklet for
Yxy(13.5804, 0.3307, 0.1980)
contains.

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Color

Yxy(13.5983, 0.3307, 0.1977)

Conversions

Conversions Part 1

Format	Color
Hex	A33E9B
RGB	163, 62, 155
RGB Percent	64%, 24%, 61%
CMY	0.3607, 0.7569, 0.3921
CMYK	0.00, 0.62, 0.05, 0.36
HSL	305°, 45%, 44%
HSV	305°, 62%, 64%
XYZ	22.7464, 13.5983, 32.4378
YIQ	102.8010, 30.3430, 50.3350

Conversions

Conversions Part 2

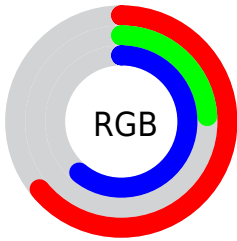
Format	Color
R_{YB}	163, 62, 155
Decimal	10698395
CIE _{Lab}	43.65, 53.31, -30.73
CIE _{LCh}	44, 61.533, 330.041
Yxy	13.5983, 0.3307, 0.1977
Android (android.graphics.Color)	4288888475 (0xFFA33E9B)
YUV	102.8010, 25.7341, 52.7945
Hunter-Lab	36.8759, 45.5725, -26.3413

Details

The Yxy color **13.5983, 0.3307, 0.1977** is a dark color, and the websafe version is hex **993399**. A complement of this color would be **27.6673, 0.2991, 0.5110**, and the grayscale version is **13.4323, 0.3127, 0.3290**.

A 20% lighter version of the original color is **32.3596, 0.3280, 0.2240**, and **4.1674, 0.3323, 0.1604** is the 20% darker color. If you saturate the color by 10%, you get **12.0414, 0.3339, 0.1837**, and if you desaturate by 10%, it is **15.6887, 0.3275, 0.2151**.

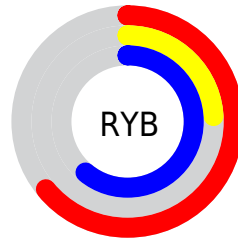
Distribution



Red (64%)

Green (24%)

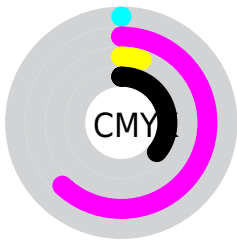
Blue (61%)



Red (64%)

Yellow (24%)

Blue (61%)

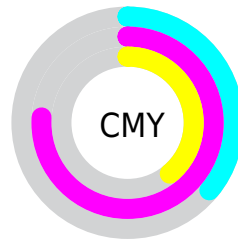


Cyan (0%)

Magenta (62%)

Yellow (5%)

Black (36%)



Cyan (36%)


Magenta (76%)

Yellow (39%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 13.5983, 0.3307, 0.1977 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 13.5983, 0.3307, 0.1977 by changing the saturation by 10% instead.


 13.5983, 0.3307,
0.1977


 13.5983, 0.3307,
0.1977


214.7173, 0.3232,
0.2679


 7.8418, 0.3317,
0.1791


 32.3746, 0.3285,
0.2242


 3.9939, 0.3321,
0.1547


 46.1631, 0.3275,
0.2338


 1.6701, 0.3309,
0.1223

 63.3978, 0.3266,
0.2419

 0.4042, 0.3291,
0.0665

 84.4631, 0.3258,
0.2487

 0.0000, 0.3045,
0.0000

 109.7432, 0.3250,
0.2546

 0.0000, 0.0000,
0.0000

139.6227, 0.3243,

0.2596

174.4860, 0.3237,
0.2640

■ 13.5983, 0.3307,
0.1977

■ 13.5983, 0.3307,
0.1977

■ 12.0414, 0.3339,
0.1837

■ 15.6887, 0.3275,
0.2151

■ 10.9668, 0.3369,
0.1738

■ 18.3537, 0.3242,
0.2352

■ 10.3169, 0.3396,
0.1681

■ 21.6329, 0.3212,
0.2570

■ 9.9934, 0.3417,
0.1656

■ 25.5615, 0.3183,
0.2797

■ 30.1723, 0.3156,
0.3025

■ 35.4958, 0.3132,
0.3247

■ 41.5605, 0.3110,
0.3460

■ 48.3936, 0.3091,
0.3660

■ 56.0207, 0.3075,
0.3847

Harmonies

Analogous

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



13.5983, 0.2173, 0.1628



13.5983, 0.3307, 0.1977



13.5983, 0.4643, 0.2566

Triad

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



13.5983, 0.3307, 0.1977



13.5983, 0.4702, 0.4949



13.5983, 0.1226, 0.2589

Complementary

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



13.5983, 0.3307, 0.1977



27.6673, 0.2991, 0.5110

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.



13.5983, 0.1668, 0.3986



13.5983, 0.3307, 0.1977



13.5983, 0.3662, 0.5649

Square

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



13.5983, 0.3307, 0.1977



13.5983, 0.5432, 0.4073



13.5983, 0.2560, 0.5409



13.5983, 0.1188, 0.1831

Rectangle

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



13.5983, 0.3307, 0.1977



13.5983, 0.5303, 0.3036



13.5983, 0.2560, 0.5409



13.5983, 0.1322, 0.2987

Sweetspot

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



13.5989, 0.3307, 0.1977



47.8128, 0.3175, 0.2857



7.3437, 0.2008, 0.1370



10.2602, 0.3183, 0.2795



82.7571, 0.3127, 0.3290



14.7319, 0.3127, 0.3290

Same Dimension

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



13.5989, 0.3307, 0.1977



20.8142, 0.3349, 0.1799



12.2680, 0.4167, 0.2632



7.1924, 0.3149, 0.3086



7.7678, 0.3415, 0.1655



0.1659, 0.3333, 0.1609

Inverse Universe

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



13.5989, 0.3307, 0.1977



20.8142, 0.3349, 0.1799



28.5627, 0.2669, 0.4136



7.1924, 0.3149, 0.3086



7.7678, 0.3415, 0.1655



0.1659, 0.3333, 0.1609

Previews

White Background



This preview shows how the Yxy color 13.5983, 0.3307, 0.1977 looks on a white background.

Color Contrast Check

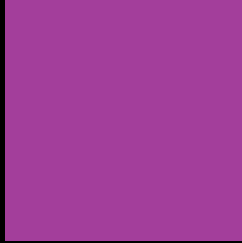
Large Text (above 18pt) WCAG AA ✓ Pass

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 13.5983, 0.3307, 0.1977 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

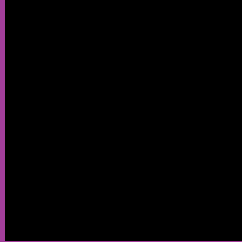
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 13.5983, 0.3307, 0.1977

Background



This preview shows how black text looks on a background with the Yxy color 13.5983, 0.3307, 0.1977.



This preview shows how white text looks on a background with the Yxy color 13.5983, 0.3307, 0.1977.

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

13.5983, 0.3307, 0.1977

Protanopia

13.9421, 0.1971, 0.1750

Deuteranopia

13.8649, 0.2438, 0.2393



Tritanopia

13.5415, 0.4288, 0.3194

Trichromacy



Original Color

13.5983, 0.3307, 0.1977

Protanomaly

12.5321, 0.2261, 0.1741

Deuteranomaly

12.8587, 0.2695, 0.2146

Tritanomaly

13.3365, 0.3919, 0.2684

Monochromacy



Original Color

13.5983, 0.3307, 0.1977

Achromatopsia

13.5633, 0.3127, 0.3290

Achromatomaly

12.7446, 0.3203, 0.2641

CSS Examples

Text

The CSS property to change the color of the text to Yxy 13.5983, 0.3307, 0.1977 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(163, 62, 155)` looks like.

```
.text, #text, p{  
    color:rgb(163, 62, 155)  
}
```

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(163, 62, 155) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(163, 62, 155) }
```

Border

The CSS property to change the border of an element to Yxy 13.5983, 0.3307, 0.1977 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(163, 62, 155) }
```

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

```
.border{ border-color:rgb(163, 62, 155) }
```

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

Here you see how a box with a 4 pixel `rgb(163, 62, 155)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(163, 62, 155); -webkit-box-  
shadow:4px 4px 4px 4px rgb(163, 62, 155);  
box-shadow:4px 4px 4px 4px rgb(163, 62,  
155) }
```


Background

The CSS property to change the background color of an element to Yxy 13.5983, 0.3307, 0.1977 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(163, 62, 155) }
```

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

```
.background{ background-color: rgb(163, 62,  
155) }
```

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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