

# Converting Colors

$Y_{xy}(30.1238, 0.2689, 0.2007)$

Have a look what the booklet for  
Yxy(30.1238, 0.2689, 0.2007)  
contains.

<b>Yxy(30.1562, 0.2688, 0.2014)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(30.1562, 0.2688, 0.2014)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B27EE7
RGB	178, 126, 231
RGB Percent	70%, 49%, 91%
CMY	0.3020, 0.5059, 0.0940
CMYK	0.23, 0.45, 0.00, 0.09
HSL	270°, 69%, 70%
HSV	270°, 45%, 91%
XYZ	40.2482, 30.1562, 79.3285
YIQ	153.5180, -2.7130, 43.6790

# Conversions

## Conversions Part 2

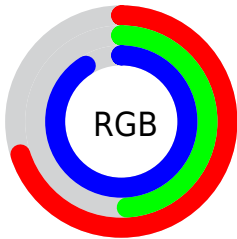
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	178, 126, 231
Decimal	11697895
CIE <sub>Lab</sub>	61.79, 40.17, -45.85
CIE <sub>LCh</sub>	62, 60.955, 311.226
Yxy	30.1562, 0.2688, 0.2014
Android (android.graphics.Color)	4289887975 (0xFFB27EE7)
YUV	153.5180, 38.1986, 21.4707
Hunter-Lab	54.9147, 34.7260, -47.2087

# Details

The Yxy color **30.1562, 0.2688, 0.2014** is a light color, and the websafe version is hex **9966CC**. A complement of this color would be **68.2676, 0.3409, 0.4568**, and the grayscale version is **31.9243, 0.3127, 0.3290**.

A 20% lighter version of the original color is **57.5247, 0.3007, 0.2520**, and **12.3383, 0.2533, 0.1696** is the 20% darker color. If you saturate the color by 10%, you get **23.5939, 0.2560, 0.1722**, and if you desaturate by 10%, it is **38.2025, 0.2807, 0.2314**.

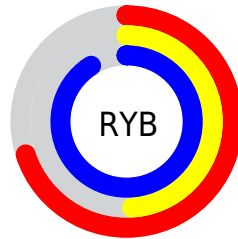
# Distribution



Red (70%)

Green (49%)

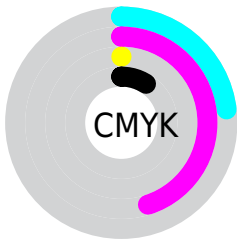
Blue (91%)



Red (70%)

Yellow (49%)

Blue (91%)

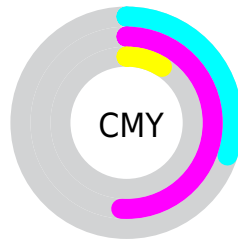


Cyan (23%)

Magenta (45%)

Yellow (0%)

Black (9%)



Cyan (30%)

Magenta (51%)

Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 30.1562, 0.2688, 0.2014 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 30.1562, 0.2688, 0.2014 by changing the saturation by 10% instead.




 30.1562, 0.2688,  
0.2014


 30.1562, 0.2688,  
0.2014


302.6319, 0.2933,  
0.2624


 19.9572, 0.2621,  
0.1874

 59.9091, 0.2782,  
0.2227

 12.3639, 0.2532,  
0.1701


 80.2318, 0.2816,  
0.2310

 6.9920, 0.2411,  
0.1486


 104.6978, 0.2844,  
0.2381

 3.4571, 0.2239,  
0.1216

133.6916, 0.2868,  
0.2443

 1.3748, 0.1981,  
0.0875

167.5975, 0.2888,  
0.2497

 0.1980, 0.1616,  
0.0264

206.7999, 0.2905,

 0.0000, 0.0395,

0.2544

0.0000

251.6832, 0.2920,  
0.2586

0.0000, 0.0000,  
0.0000

30.1562, 0.2688,  
0.2014

30.1562, 0.2688,  
0.2014

23.5939, 0.2560,  
0.1722

38.2025, 0.2807,  
0.2314

18.4137, 0.2426,  
0.1453

47.8181, 0.2914,  
0.2609

14.5065, 0.2292,  
0.1222


59.0859, 0.3007,  
0.2892

11.7439, 0.2164,  
0.1042

72.0821, 0.3088,  
0.3155

9.9685, 0.2048,  
0.0918

86.8776, 0.3157,  
0.3397

 9.3744, 0.2000,  
0.0875

 97.2473, 0.3223,  
0.3525

 98.5517, 0.3267,  
0.3522

# Harmonies

## Analogous

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



30.1562, 0.1974, 0.1871



30.1562, 0.2688, 0.2014



30.1562, 0.3670, 0.2398

# Triad

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



30.1562, 0.2688, 0.2014



30.1562, 0.4841, 0.4294



30.1562, 0.1799, 0.3411

# Complementary

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



30.1562, 0.2688, 0.2014



68.2676, 0.3409, 0.4568

# 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.



30.1562, 0.2433, 0.4511



30.1562, 0.2688, 0.2014



30.1562, 0.4185, 0.4906

# Square

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



30.1562, 0.2688, 0.2014



30.1562, 0.5039, 0.3610



30.1562, 0.3309, 0.5106



30.1562, 0.1528, 0.2499



# Rectangle

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



30.1562, 0.2688, 0.2014



30.1562, 0.4326, 0.2758



30.1562, 0.3309, 0.5106



30.1562, 0.1971, 0.3786

# Sweetspot

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



30.1574, 0.2688, 0.2014



76.0397, 0.3019, 0.2929



42.9580, 0.2400, 0.2616



15.5686, 0.3001, 0.2870



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.



30.1574, 0.2688, 0.2014



29.6373, 0.2562, 0.1727



37.3980, 0.3163, 0.2178



14.2358, 0.3058, 0.3053



5.3271, 0.2016, 0.0884



0.4489, 0.2175, 0.0972



# Inverse Universe

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



35.1724, 0.3718, 0.2692



36.9914, 0.3912, 0.2577



63.2491, 0.3070, 0.4712



14.4888, 0.3214, 0.3172



10.2647, 0.4933, 0.2491

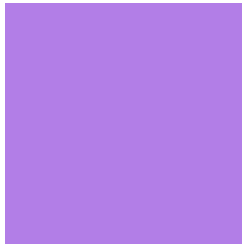


0.7773, 0.4613, 0.2315



# Previews

## White Background



This preview shows how the Yxy color 30.1562, 0.2688, 0.2014 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

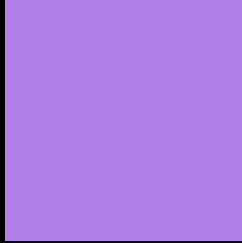
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 30.1562, 0.2688, 0.2014 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

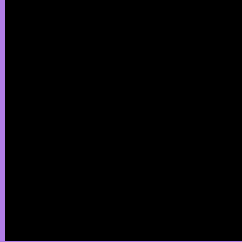
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 30.1562, 0.2688, 0.2014**

## **Background**



This preview shows how black text looks on a background with the Yxy color 30.1562, 0.2688, 0.2014.

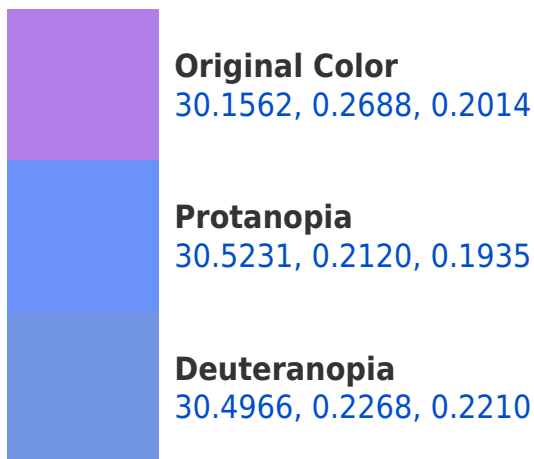


This preview shows how white text looks on a background with the Yxy color 30.1562, 0.2688, 0.2014.

# 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





## Tritanopia

30.0108, 0.3242, 0.3112

# Trichromacy



## Original Color

30.1562, 0.2688, 0.2014



## Protanomaly

29.8626, 0.2287, 0.1955



## Deuteranomaly

29.9696, 0.2397, 0.2122



## Tritanomaly

29.8563, 0.3023, 0.2649

# Monochromacy



## Original Color

30.1562, 0.2688, 0.2014



## Achromatopsia

32.3143, 0.3127, 0.3290



## Achromatomaly

31.1104, 0.2963, 0.2750

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 30.1562, 0.2688, 0.2014 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(178, 126, 231)` looks like.

```
.text, #text, p{  
    color:rgb(178, 126, 231)  
}
```

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(178, 126, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(178, 126, 231) }
```

## Border

The CSS property to change the border of an element to Yxy 30.1562, 0.2688, 0.2014 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(178, 126, 231) }
```

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

```
.border{ border-color:rgb(178, 126, 231) }
```

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

Here you see how a box with a 4 pixel `rgb(178, 126, 231)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(178, 126, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(178, 126, 231);  
box-shadow:4px 4px 4px 4px rgb(178, 126,  
231) }
```



# Background

The CSS property to change the background color of an element to Yxy 30.1562, 0.2688, 0.2014 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(178, 126, 231) }
```

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

```
.background{ background-color: rgb(178,  
126, 231) }
```

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