

# Converting Colors

$Y_{xy}(32.2483, 0.3198, 0.2171)$

Have a look what the booklet for  
Yxy(32.2483, 0.3198, 0.2171)  
contains.

<b>Yxy(32.3541, 0.3200, 0.2177)</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(32.3541, 0.3200, 0.2177)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	DA74D8
RGB	218, 116, 216
RGB Percent	85%, 45%, 85%
CMY	0.1450, 0.5451, 0.1529
CMYK	0.00, 0.47, 0.01, 0.15
HSL	301°, 58%, 65%
HSV	301°, 47%, 85%
XYZ	47.5577, 32.3541, 68.7060
YIQ	157.8980, 28.6920, 52.7240

# Conversions

## Conversions Part 2

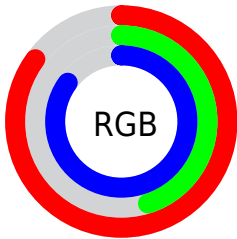
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	218, 116, 216
Decimal	14316760
CIE <sub>Lab</sub>	63.63, 53.69, -34.24
CIE <sub>LCh</sub>	64, 63.683, 327.472
Y <sub>xy</sub>	32.3541, 0.3200, 0.2177
Android (android.graphics.Color)	4292506840 (0xFFDA74D8)
Y <sub>UV</sub>	157.8980, 28.6443, 52.7095
Hunter-Lab	56.8807, 49.7020, -31.7998

# Details

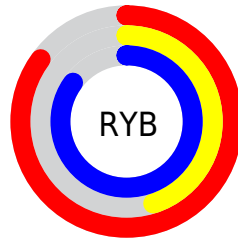
The Yxy color **32.3541, 0.3200, 0.2177** is a light color, and the websafe version is hex **CC66CC**. A complement of this color would be **55.1734, 0.3048, 0.4730**, and the grayscale version is **34.0018, 0.3127, 0.3290**.

A 20% lighter version of the original color is **57.6058, 0.3166, 0.2469**, and **13.5955, 0.3192, 0.1899** is the 20% darker color. If you saturate the color by 10%, you get **27.8836, 0.3215, 0.1980**, and if you desaturate by 10%, it is **38.0068, 0.3184, 0.2400**.

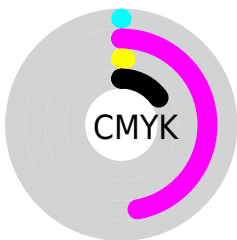
# Distribution



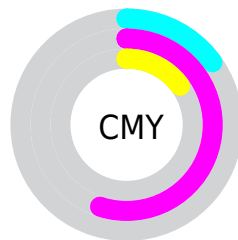
- Red (85%)
- Green (45%)
- Blue (85%)



- Red (85%)
- Yellow (45%)
- Blue (85%)



- Cyan (0%)
- Magenta (47%)
- Yellow (1%)
- Black (15%)




- Cyan (15%)
- Magenta (55%)
- Yellow (15%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 32.3541, 0.3200, 0.2177 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 32.3541, 0.3200, 0.2177 by changing the saturation by 10% instead.




 32.3541, 0.3200,  
0.2177


 32.3541, 0.3200,  
0.2177


312.7291, 0.3183,  
0.2708

 21.6321, 0.3198,  
0.2054


 63.3658, 0.3198,  
0.2363

 13.5868, 0.3193,  
0.1902


 84.4243, 0.3196,  
0.2435

 7.8339, 0.3181,  
0.1710


 109.6971, 0.3194,  
0.2497

 3.9888, 0.3154,  
0.1462

139.5685, 0.3192,  
0.2550

 1.6673, 0.3096,  
0.1137

174.4231, 0.3189,  
0.2597

 0.4024, 0.2998,  
0.0599

214.6451, 0.3187,

 0.0000, 0.2637,

0.2638

0.0000

260.6190, 0.3185,  
0.2675

0.0000, 0.0000,  
0.0000

32.3541, 0.3200,  
0.2177

32.3541, 0.3200,  
0.2177

27.8836, 0.3215,  
0.1980

38.0068, 0.3184,  
0.2400

24.5072, 0.3229,  
0.1817

44.9131, 0.3168,  
0.2639

22.1316, 0.3240,  
0.1695

53.1436, 0.3152,  
0.2884

20.6460, 0.3250,  
0.1616

62.7626, 0.3137,  
0.3128

19.9073, 0.3257,  
0.1577

73.8303, 0.3123,  
0.3365

■ 19.7487, 0.3260,  
0.1569

■ 86.4030, 0.3109,  
0.3589

■ 91.5438, 0.3103,  
0.3667

■ 91.5665, 0.3101,  
0.3663

■ 91.5893, 0.3098,  
0.3658

# Harmonies

## Analogous

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



32.3541, 0.2304, 0.1895



32.3541, 0.3200, 0.2177



32.3541, 0.4233, 0.2674

# Triad

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



32.3541, 0.3200, 0.2177



32.3541, 0.4547, 0.4668



32.3541, 0.1582, 0.2855

# Complementary

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



32.3541, 0.3200, 0.2177



55.1734, 0.3048, 0.4730

# 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.



32.3541, 0.2025, 0.3941



32.3541, 0.3200, 0.2177



32.3541, 0.3729, 0.5132

# Square

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



32.3541, 0.3200, 0.2177



32.3541, 0.5037, 0.3984



32.3541, 0.2809, 0.4924



32.3541, 0.1500, 0.2162



# Rectangle

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



32.3541, 0.3200, 0.2177



32.3541, 0.4777, 0.3083



32.3541, 0.2809, 0.4924



32.3541, 0.1688, 0.3185

# Sweetspot

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



32.3555, 0.3200, 0.2177



79.2544, 0.3148, 0.2950



21.3822, 0.2254, 0.1831



16.3567, 0.3151, 0.2896



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.



32.3555, 0.3200, 0.2177



39.9322, 0.3215, 0.1985



30.1253, 0.3767, 0.2703



13.2702, 0.3141, 0.3064



11.8312, 0.3259, 0.1569



0.7679, 0.3250, 0.1564



# Inverse Universe

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



32.3555, 0.3200, 0.2177



39.9322, 0.3215, 0.1985



56.7187, 0.2768, 0.3983



13.2702, 0.3141, 0.3064



11.8312, 0.3259, 0.1569

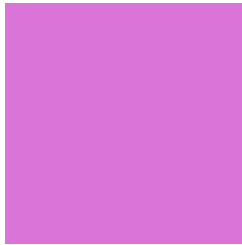


0.7679, 0.3250, 0.1564



# Previews

## White Background



This preview shows how the Yxy color 32.3541, 0.3200, 0.2177 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

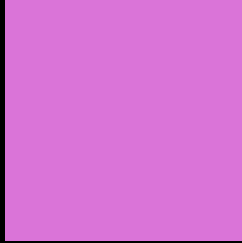
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 32.3541, 0.3200, 0.2177 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

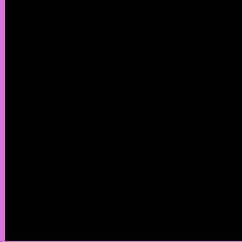
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 32.3541, 0.3200, 0.2177**

## **Background**



This preview shows how black text looks on a background with the Yxy color 32.3541, 0.3200, 0.2177.



This preview shows how white text looks on a background with the Yxy color 32.3541, 0.3200, 0.2177.

# 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

32.3541, 0.3200, 0.2177

### Protanopia

32.6477, 0.2216, 0.2058

### Deuteranopia

32.4632, 0.2545, 0.2487



## Tritanopia

32.3135, 0.3883, 0.3165

# Trichromacy



## Original Color

32.3541, 0.3200, 0.2177



## Protanomaly

31.0860, 0.2490, 0.2067



## Deuteranomaly

31.4342, 0.2747, 0.2330



## Tritanomaly

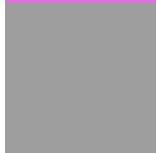
32.0781, 0.3618, 0.2763

# Monochromacy



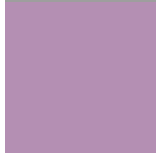
## Original Color

32.3541, 0.3200, 0.2177



## Achromatopsia

34.1914, 0.3127, 0.3290



## Achromatomaly

32.6029, 0.3160, 0.2801

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 32.3541, 0.3200, 0.2177 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(218, 116, 216)` looks like.

```
.text, #text, p{  
    color:rgb(218, 116, 216)  
}
```

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(218, 116, 216) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(218, 116, 216) }
```

## Border

The CSS property to change the border of an element to Yxy 32.3541, 0.3200, 0.2177 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(218, 116, 216) }
```

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

```
.border{ border-color:rgb(218, 116, 216) }
```

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

Here you see how a box with a 4 pixel `rgb(218, 116, 216)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(218, 116, 216); -webkit-box-  
shadow:4px 4px 4px 4px rgb(218, 116, 216);  
box-shadow:4px 4px 4px 4px rgb(218, 116,  
216) }
```



# Background

The CSS property to change the background color of an element to Yxy 32.3541, 0.3200, 0.2177 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(218, 116, 216) }
```

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

```
.background{ background-color: rgb(218,  
116, 216) }
```

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