

# Converting Colors

$Y_{xy}(29.8782, 0.3453, 0.2227)$

Have a look what the booklet for  
Yxy(29.8782, 0.3453, 0.2227)  
contains.

<b>Yxy(29.8782, 0.3453, 0.2227)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(29.8782, 0.3453, 0.2227)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E167C8
RGB	225, 103, 200
RGB Percent	88%, 40%, 78%
CMY	0.1176, 0.5961, 0.2158
CMYK	0.00, 0.54, 0.11, 0.12
HSL	312°, 67%, 64%
HSV	312°, 54%, 88%
XYZ	46.3266, 29.8782, 57.9586
YIQ	150.5360, 41.5750, 56.0310

# Conversions

## Conversions Part 2

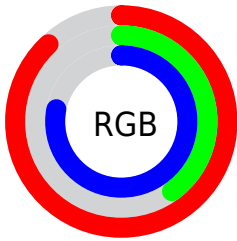
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	225, 103, 200
Decimal	14772168
CIE <sub>Lab</sub>	61.55, 59.23, -28.38
CIE <sub>LCh</sub>	62, 65.677, 334.396
Yxy	29.8782, 0.3453, 0.2227
Android (android.graphics.Color)	4292962248 (0xFFE167C8)
YUV	150.5360, 24.3858, 65.3049
Hunter-Lab	54.6610, 55.6269, -24.6043

# Details

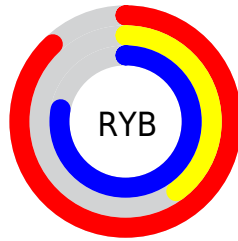
The Yxy color **29.8782, 0.3453, 0.2227** is a light color, and the websafe version is hex **CC66CC**. A complement of this color would be **58.2971, 0.2926, 0.4683**, and the grayscale version is **30.6210, 0.3127, 0.3290**.

A 20% lighter version of the original color is **53.2763, 0.3171, 0.2357**, and **12.2448, 0.3523, 0.1952** is the 20% darker color. If you saturate the color by 10%, you get **25.7770, 0.3532, 0.2076**, and if you desaturate by 10%, it is **35.1928, 0.3378, 0.2405**.

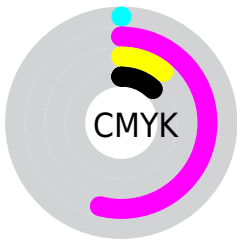
# Distribution



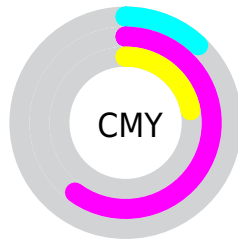
- Red (88%)
- Green (40%)
- Blue (78%)



- Red (88%)
- Yellow (40%)
- Blue (78%)



- Cyan (0%)
- Magenta (54%)
- Yellow (11%)
- Black (12%)




- Cyan (12%)
- Magenta (60%)
- Yellow (22%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 29.8782, 0.3453, 0.2227 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 29.8782, 0.3453, 0.2227 by changing the saturation by 10% instead.





 29.8782, 0.3453,  
0.2227

 29.8782, 0.3453,  
0.2227


301.3363, 0.3302,  
0.2742


 19.7462, 0.3487,  
0.2105


 59.4695, 0.3401,  
0.2410


 12.2107, 0.3527,  
0.1952


 79.6976, 0.3381,  
0.2480

 6.8873, 0.3576,  
0.1757


 104.0597, 0.3363,  
0.2540

 3.3917, 0.3636,  
0.1501

 132.9404, 0.3348,  
0.2591

 1.3395, 0.3704,  
0.1157

166.7240, 0.3334,  
0.2636

 0.1715, 0.3902,  
0.0359

205.7950, 0.3322,


 0.0000, 0.3657,


0.2676

0.0000


250.5376, 0.3312,  
0.2711


 0.0000, 0.0000,  
0.0000

 29.8782, 0.3453,  
0.2227


 29.8782, 0.3453,  
0.2227


 25.7770, 0.3532,  
0.2076


 35.1928, 0.3378,  
0.2405


 22.7859, 0.3614,  
0.1963


 41.8047, 0.3309,  
0.2601


 20.7916, 0.3695,  
0.1895

 49.7951, 0.3247,  
0.2805

 19.6543, 0.3772,  
0.1873

 59.2374, 0.3192,  
0.3010

 19.2575, 0.3816,  
0.1876

 70.2000, 0.3145,  
0.3209

■ 82.7466, 0.3104,  
0.3398

■ 93.3712, 0.3072,  
0.3522

■ 93.6374, 0.3046,  
0.3474

■ 93.9105, 0.3020,  
0.3427

# Harmonies

## Analogous

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



29.8782, 0.2448, 0.1878



29.8782, 0.3453, 0.2227



29.8782, 0.4521, 0.2781

# Triad

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



29.8782, 0.3453, 0.2227



29.8782, 0.4424, 0.4871



29.8782, 0.1460, 0.2612

# Complementary

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



29.8782, 0.3453, 0.2227



58.2971, 0.2926, 0.4683

# 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.



29.8782, 0.1823, 0.3689



29.8782, 0.3453, 0.2227



29.8782, 0.3521, 0.5272

# Square

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



29.8782, 0.3453, 0.2227



29.8782, 0.5053, 0.4163



29.8782, 0.2568, 0.4850



29.8782, 0.1457, 0.2000



# Rectangle

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



29.8782, 0.3453, 0.2227



29.8782, 0.5010, 0.3217



29.8782, 0.2568, 0.4850



29.8782, 0.1538, 0.2923

# Sweetspot

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



29.8796, 0.3453, 0.2227



76.1471, 0.3202, 0.2971



19.6815, 0.2261, 0.1633



15.7242, 0.3213, 0.2929



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.



29.8796, 0.3453, 0.2227



33.6671, 0.3542, 0.2060



27.5921, 0.4228, 0.2873



13.8849, 0.3169, 0.3106



11.1137, 0.3805, 0.1870



0.7826, 0.3696, 0.1809



# Inverse Universe

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



29.8796, 0.3453, 0.2227



33.6671, 0.3542, 0.2060



60.3863, 0.2614, 0.3791



13.8849, 0.3169, 0.3106



11.1137, 0.3805, 0.1870



0.7826, 0.3696, 0.1809



# Previews

## White Background



This preview shows how the Yxy color 29.8782, 0.3453, 0.2227 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

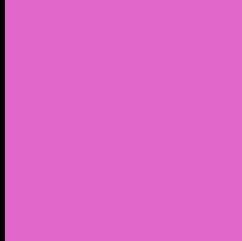
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 29.8782, 0.3453, 0.2227 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

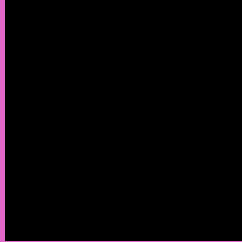
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 29.8782, 0.3453, 0.2227**

## Background



This preview shows how black text looks on a background with the Yxy color 29.8782, 0.3453, 0.2227.



This preview shows how white text looks on a background with the Yxy color 29.8782, 0.3453, 0.2227.

# 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

29.8782, 0.3453, 0.2227

### Protanopia

30.2113, 0.2237, 0.2091

### Deuteranopia

29.9835, 0.2664, 0.2600



## Tritanopia

29.7696, 0.4202, 0.3184

# Trichromacy



## Original Color

29.8782, 0.3453, 0.2227



## Protanomaly

28.3071, 0.2566, 0.2083



## Deuteranomaly

28.6087, 0.2913, 0.2399



## Tritanomaly

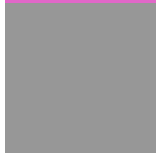
29.6168, 0.3925, 0.2804

# Monochromacy



## Original Color

29.8782, 0.3453, 0.2227



## Achromatopsia

30.9469, 0.3127, 0.3290



## Achromatomaly

29.3797, 0.3248, 0.2802

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 29.8782, 0.3453, 0.2227 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(225, 103, 200)` looks like.

```
.text, #text, p{  
    color:rgb(225, 103, 200)  
}
```

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(225, 103, 200) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(225, 103, 200) }
```

## Border

The CSS property to change the border of an element to Yxy 29.8782, 0.3453, 0.2227 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(225, 103, 200) }
```

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

```
.border{ border-color:rgb(225, 103, 200) }
```

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

Here you see how a box with a 4 pixel `rgb(225, 103, 200)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(225, 103, 200); -webkit-box-  
shadow:4px 4px 4px 4px rgb(225, 103, 200);  
box-shadow:4px 4px 4px 4px rgb(225, 103,  
200) }
```



# Background

The CSS property to change the background color of an element to Yxy 29.8782, 0.3453, 0.2227 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(225, 103, 200) }
```

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

```
.background{ background-color: rgb(225,  
103, 200) }
```

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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