

# Converting Colors

$Y_{xy}(36.8744, 0.2553, 0.3015)$

Have a look what the booklet for  
Yxy(36.8744, 0.2553, 0.3015)  
contains.

<b>Yxy(36.9358, 0.2553, 0.3018)</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(36.9358, 0.2553, 0.3018)**

# Conversions

## Conversions Part 1

Format	Color
Hex	74ACBE
RGB	116, 172, 190
RGB Percent	45%, 67%, 75%
CMY	0.5453, 0.3254, 0.2549
CMYK	0.39, 0.09, 0.00, 0.25
HSL	195°, 36%, 60%
HSV	195°, 39%, 75%
XYZ	31.2449, 36.9358, 54.2043
YIQ	157.3080, -39.1540, -6.2740

# Conversions

## Conversions Part 2

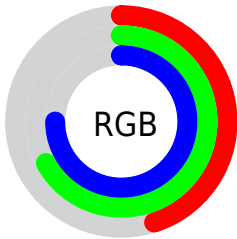
Format	Color
<a href="#">RYB</a>	<a href="#">116, 148, 190</a>
Decimal	<a href="#">7646398</a>
CIELab	<a href="#">67.23, -13.67, -15.01</a>
CIElCh	<a href="#">67, 20.301, 227.683</a>
Yxy	<a href="#">36.9358, 0.2553, 0.3018</a>
Android (android.graphics.Color)	<a href="#">4285836478</a> ( <a href="#">0xFF74ACBE</a> )
YUV	<a href="#">157.3080, 16.1172, -36.2271</a>
Hunter-Lab	<a href="#">60.7748, -14.5875, -10.3376</a>

# Details

The Yxy color **36.9358, 0.2553, 0.3018** is a light color, and the websafe version is hex **669999**. A complement of this color would be **29.2448, 0.3985, 0.3542**, and the grayscale version is **33.7982, 0.3127, 0.3290**.

A 20% lighter version of the original color is **70.2499, 0.2663, 0.3072**, and **16.2958, 0.2385, 0.2926** is the 20% darker color. If you saturate the color by 10%, you get **34.0386, 0.2424, 0.2935**, and if you desaturate by 10%, it is **40.1633, 0.2692, 0.3096**.

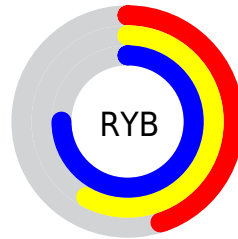
# Distribution



Red (45%)

Green (67%)

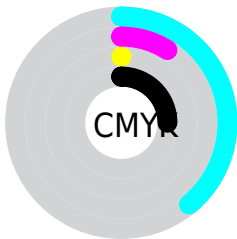
Blue (75%)



Red (45%)

Yellow (58%)

Blue (75%)

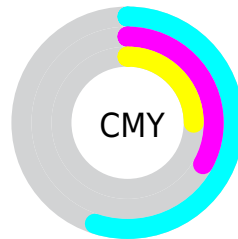


Cyan (39%)

Magenta (9%)

Yellow (0%)

Black (25%)



Cyan (55%)

Magenta (33%)


Yellow (25%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.9358, 0.2553, 0.3018 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 36.9358, 0.2553, 0.3018 by changing the saturation by 10% instead.





 36.9358, 0.2553,  
0.3018


 36.9358, 0.2553,  
0.3018


333.0325, 0.2845,  
0.3164

 25.1578, 0.2479,  
0.2978


 70.4740, 0.2660,  
0.3073

 16.1947, 0.2383,  
0.2926


 93.0030, 0.2700,  
0.3093

 9.6620, 0.2255,  
0.2852


 119.8845, 0.2734,  
0.3110

 5.1754, 0.2075,  
0.2744

151.5028, 0.2762,  
0.3124

 2.3506, 0.1808,  
0.2569

188.2424, 0.2787,  
0.3136

 0.8003, 0.1220,  
0.2287

230.4876, 0.2809,

 0.0000, 0.0000,

0.3147

0.0000

278.6228, 0.2828,  
0.3156

■ 36.9358, 0.2553,  
0.3018

■ 36.9358, 0.2553,  
0.3018

■ 34.0386, 0.2424,  
0.2935

■ 40.1633, 0.2692,  
0.3096

■ 31.4503, 0.2309,  
0.2849

■ 43.7322, 0.2839,  
0.3169

■ 29.1537, 0.2211,  
0.2760

■ 47.6586, 0.2990,  
0.3235

■ 27.1275, 0.2131,  
0.2670

■ 51.9558, 0.3143,  
0.3296

■ 25.3469, 0.2071,  
0.2580

■ 56.6367, 0.3294,  
0.3350

■ 23.7691, 0.2027,  
0.2492

■ 61.7134, 0.3443,  
0.3399

■ 23.6135, 0.2023,  
0.2482

■ 67.1972, 0.3587,  
0.3442

■ 70.5582, 0.3624,  
0.3487

■ 72.8567, 0.3612,  
0.3533

# Harmonies

## Analogous

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



36.9358, 0.2647, 0.3289



36.9358, 0.2553, 0.3018



36.9358, 0.2602, 0.2839

# Triad

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



36.9358, 0.2553, 0.3018



36.9358, 0.3377, 0.3024



36.9358, 0.3460, 0.3835

# Complementary

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



36.9358, 0.2553, 0.3018



29.2448, 0.3985, 0.3542

# 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.



36.9358, 0.3674, 0.3728



36.9358, 0.2553, 0.3018



36.9358, 0.3628, 0.3260

# Square

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



36.9358, 0.2553, 0.3018



36.9358, 0.3066, 0.2853



36.9358, 0.3738, 0.3515



36.9358, 0.3164, 0.3784



# Rectangle

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



36.9358, 0.2553, 0.3018



36.9358, 0.2711, 0.2788



36.9358, 0.3738, 0.3515



36.9358, 0.3545, 0.3815

# Sweetspot

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



36.9372, 0.2553, 0.3018



83.9915, 0.2941, 0.3215



42.2417, 0.2958, 0.4184



18.2351, 0.2921, 0.3206



97.7402, 0.3127, 0.3290



20.4902, 0.3127, 0.3290



# Same Dimension

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



36.9372, 0.2553, 0.3018



62.2825, 0.2439, 0.2946



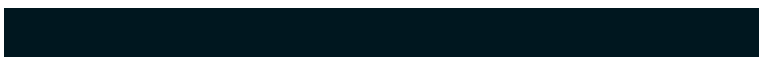
24.9514, 0.2466, 0.2436



10.4059, 0.2985, 0.3233



15.8268, 0.2026, 0.2494



0.7161, 0.2085, 0.2707



# Inverse Universe

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



26.4067, 0.3370, 0.2548



41.2156, 0.3443, 0.2389



41.0564, 0.3796, 0.4015



9.6556, 0.3174, 0.3118



8.6274, 0.3928, 0.1938



0.3477, 0.3722, 0.1824



# Previews

## White Background



This preview shows how the Yxy color 36.9358, 0.2553, 0.3018 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 36.9358, 0.2553, 0.3018 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

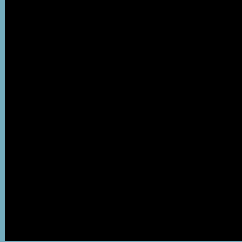
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 36.9358, 0.2553, 0.3018**

## Background



This preview shows how black text looks on a background with the Yxy color 36.9358, 0.2553, 0.3018.



This preview shows how white text looks on a background with the Yxy color 36.9358, 0.2553, 0.3018.

# 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

36.9358, 0.2553, 0.3018

### Protanopia

36.7331, 0.2931, 0.2994

### Deuteranopia

36.5390, 0.2885, 0.2824



## Tritanopia

37.0771, 0.2574, 0.3091

# Trichromacy



## Original Color

36.9358, 0.2553, 0.3018

## Protanomaly

36.7469, 0.2776, 0.3000

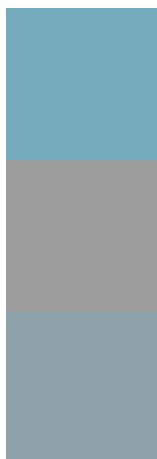
## Deuteranomaly

36.5597, 0.2753, 0.2891

## Tritanomaly

37.1198, 0.2568, 0.3077

# Monochromacy



## Original Color

36.9358, 0.2553, 0.3018

## Achromatopsia

33.7164, 0.3127, 0.3290

## Achromatomaly

34.4560, 0.2886, 0.3183

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  36.9358, 0.2553, 0.3018 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(116, 172, 190)` looks like.

```
.text, #text, p{  
    color:rgb(116, 172, 190)  
}
```

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(116, 172, 190) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 172, 190) }
```

## Border

The CSS property to change the border of an element to Yxy 36.9358, 0.2553, 0.3018 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(116, 172, 190) }
```

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

```
.border{ border-color:rgb(116, 172, 190) }
```

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

Here you see how a box with a 4 pixel `rgb(116, 172, 190)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(116, 172, 190); -webkit-box-  
shadow:4px 4px 4px 4px rgb(116, 172, 190);  
box-shadow:4px 4px 4px 4px rgb(116, 172,  
190) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.9358, 0.2553, 0.3018 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(116, 172, 190) }
```

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

```
.background{ background-color: rgb(116,  
172, 190) }
```

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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