

# Converting Colors

$Y_{xy}(45.0996, 0.2558, 0.3140)$

Have a look what the booklet for  
Yxy(45.0996, 0.2558, 0.3140)  
contains.

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# Color

**Yxy(45.0370, 0.2553, 0.3133)**

# Conversions

## Conversions Part 1

Format	Color
Hex	78BEC9
RGB	120, 190, 201
RGB Percent	47%, 75%, 79%
CMY	0.5295, 0.2549, 0.2118
CMYK	0.40, 0.05, 0.00, 0.21
HSL	188°, 43%, 63%
HSV	188°, 40%, 79%
XYZ	36.6995, 45.0370, 62.0139
YIQ	170.3240, -45.2510, -11.4190

# Conversions

## Conversions Part 2

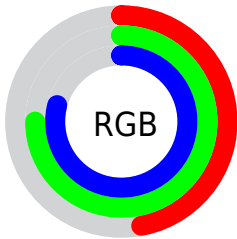
Format	Color
R <sub>Y</sub> B	120, 158, 201
Decimal	7913161
CIE Lab	72.92, -19.17, -12.48
CIE LCh	73, 22.872, 213.065
Yxy	45.0370, 0.2553, 0.3133
Android (android.graphics.Color)	4286103241 (0xFF78BEC9)
YUV	170.3240, 15.1233, -44.1341
Hunter-Lab	67.1096, -19.8275, -7.8113

# Details

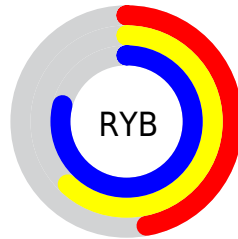
The Yxy color **45.0370, 0.2553, 0.3133** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **29.9986, 0.4078, 0.3438**, and the grayscale version is **40.3076, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.3616, 0.2669, 0.3191**, and **20.8387, 0.2395, 0.3071** is the 20% darker color. If you saturate the color by 10%, you get **42.5793, 0.2438, 0.3088**, and if you desaturate by 10%, it is **47.8219, 0.2682, 0.3176**.

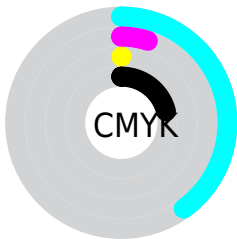
# Distribution



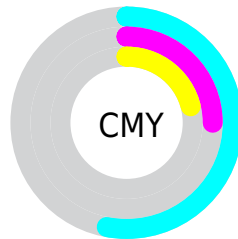
- Red (47%)
- Green (75%)
- Blue (79%)



- Red (47%)
- Yellow (62%)
- Blue (79%)



- Cyan (40%)
- Magenta (5%)
- Yellow (0%)
- Black (21%)




- Cyan (53%)
- Magenta (25%)
- Yellow (21%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.0370, 0.2553, 0.3133 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 45.0370, 0.2553, 0.3133 by changing the saturation by 10% instead.





 45.0370, 0.2553,  
0.3133

 45.0370, 0.2553,  
0.3133


366.9234, 0.2836,  
0.3218


 31.4866, 0.2484,  
0.3110


 82.7759, 0.2655,  
0.3165

 20.9696, 0.2396,  
0.3080


 107.7332, 0.2693,  
0.3177

 13.1018, 0.2281,  
0.3037


 137.2616, 0.2726,  
0.3187

 7.4987, 0.2124,  
0.2975

171.7454, 0.2754,  
0.3195

 3.7759, 0.1900,  
0.2876

211.5691, 0.2779,  
0.3202

 1.5490, 0.1555,  
0.2700

257.1171, 0.2800,

 0.3228, 0.0000,

0.3208

0.2055

308.7737, 0.2819,  
0.3213

0.0000, 0.0000,  
0.0000

45.0370, 0.2553,  
0.3133

45.0370, 0.2553,  
0.3133

42.5793, 0.2438,  
0.3088

47.8219, 0.2682,  
0.3176

40.4245, 0.2339,  
0.3041

50.9462, 0.2822,  
0.3217

38.5529, 0.2258,  
0.2993


54.4279, 0.2970,  
0.3254


36.9402, 0.2196,  
0.2945

58.2820, 0.3122,  
0.3289


35.5577, 0.2153,  
0.2898


62.5228, 0.3277,  
0.3320

 34.3848, 0.2126,  
0.2852

 67.1636, 0.3432,  
0.3348

 71.1234, 0.3539,  
0.3374

 72.4736, 0.3534,  
0.3402

 73.8469, 0.3528,  
0.3430

# Harmonies

## Analogous

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



45.0370, 0.2721, 0.3442



45.0370, 0.2553, 0.3133



45.0370, 0.2531, 0.2891

# Triad

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



45.0370, 0.2553, 0.3133



45.0370, 0.3232, 0.2911



45.0370, 0.3603, 0.3828

# Complementary

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



45.0370, 0.2553, 0.3133



29.9986, 0.4078, 0.3438

# 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.



45.0370, 0.3759, 0.3651



45.0370, 0.2553, 0.3133



45.0370, 0.3540, 0.3131

# Square

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



45.0370, 0.2553, 0.3133



45.0370, 0.2909, 0.2780



45.0370, 0.3737, 0.3396



45.0370, 0.3323, 0.3861



# Rectangle

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



45.0370, 0.2553, 0.3133



45.0370, 0.2600, 0.2795



45.0370, 0.3737, 0.3396



45.0370, 0.3673, 0.3782

# Sweetspot

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



45.0388, 0.2553, 0.3133



92.0313, 0.2942, 0.3248



47.3965, 0.3003, 0.4351



19.5251, 0.2922, 0.3243



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

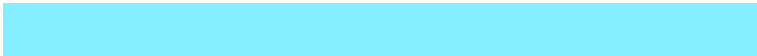


# Same Dimension

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



45.0388, 0.2553, 0.3133



73.5539, 0.2455, 0.3095



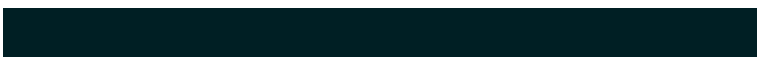
29.9227, 0.2458, 0.2524



11.8127, 0.2984, 0.3258



21.7193, 0.2128, 0.2859



1.0981, 0.2155, 0.2957



# Inverse Universe

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



29.5645, 0.3287, 0.2424



44.1221, 0.3329, 0.2257



43.0091, 0.3864, 0.3948



10.7909, 0.3158, 0.3093



9.7326, 0.3580, 0.1746

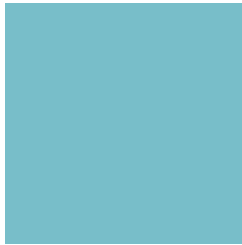


0.4679, 0.3492, 0.1697



# Previews

## White Background



This preview shows how the Yxy color 45.0370, 0.2553, 0.3133 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

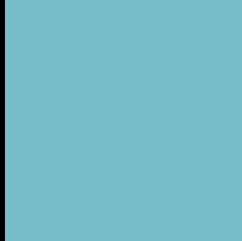
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.0370, 0.2553, 0.3133 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

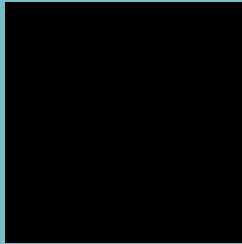
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.0370, 0.2553, 0.3133**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.0370, 0.2553, 0.3133.



This preview shows how white text looks on a background with the Yxy color 45.0370, 0.2553, 0.3133.

# 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

45.0370, 0.2553, 0.3133

### Protanopia

44.6416, 0.3001, 0.3081

### Deuteranopia

44.6990, 0.2966, 0.2910



## Tritanopia

44.8679, 0.2534, 0.3064

# Trichromacy



## Original Color

45.0370, 0.2553, 0.3133

## Protanomaly

44.5093, 0.2814, 0.3100

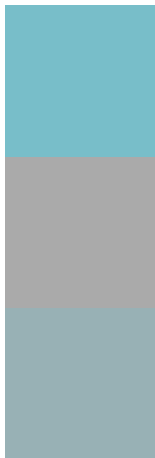
## Deuteranomaly

44.4279, 0.2794, 0.2984

## Tritanomaly

44.8198, 0.2539, 0.3078

# Monochromacy



## Original Color

45.0370, 0.2553, 0.3133

## Achromatopsia

40.1978, 0.3127, 0.3290

## Achromatomaly

41.4559, 0.2886, 0.3233

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.0370, 0.2553, 0.3133 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(120, 190, 201)` looks like.

```
.text, #text, p{  
    color:rgb(120, 190, 201)  
}
```

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(120, 190, 201) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 190, 201) }
```

## Border

The CSS property to change the border of an element to Yxy 45.0370, 0.2553, 0.3133 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(120, 190, 201) }
```

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

```
.border{ border-color:rgb(120, 190, 201) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 190, 201)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 190, 201); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 190, 201);  
box-shadow:4px 4px 4px 4px rgb(120, 190,  
201) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.0370, 0.2553, 0.3133 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 190, 201) }
```

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

```
.background{ background-color: rgb(120,  
190, 201) }
```

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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