

# Converting Colors

$Y_{xy}(47.7652, 0.2362, 0.3650)$

Have a look what the booklet for  
Yxy(47.7652, 0.2362, 0.3650)  
contains.

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# Color

**Yxy(47.7102, 0.2359, 0.3642)**

# Conversions

## Conversions Part 1

Format	Color
Hex	14CEB7
RGB	20, 206, 183
RGB Percent	8%, 81%, 72%
CMY	0.9228, 0.1921, 0.2823
CMYK	0.90, 0.00, 0.11, 0.19
HSL	173°, 83%, 44%
HSV	173°, 90%, 81%
XYZ	30.9029, 47.7102, 52.3869
YIQ	147.7640, -103.4730, -46.5850

# Conversions

## Conversions Part 2

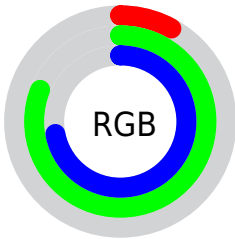
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	20, 119, 206
Decimal	1363639
CIE <sub>Lab</sub>	74.64, -46.88, -0.44
CIE <sub>LCh</sub>	75, 46.885, 180.536
Yxy	47.7102, 0.2359, 0.3642
Android (android.graphics.Color)	4279553719 (0xFF14CEB7)
YUV	147.7640, 17.3713, -112.0490
Hunter-Lab	69.0726, -41.0165, 3.3833

# Details

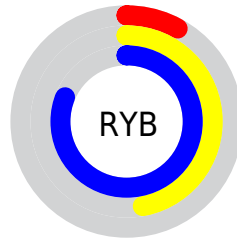
The Yxy color **47.7102, 0.2359, 0.3642** is a dark color, and the websafe version is hex **00CCCC**. The color can be described as middle washed spring green. A complement of this color would be **13.7842, 0.6014, 0.3172**, and the grayscale version is **29.4300, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.0032, 0.2475, 0.3478**, and **23.7449, 0.2368, 0.3725** is the 20% darker color. If you saturate the color by 10%, you get **47.4664, 0.2356, 0.3683**, and if you desaturate by 10%, it is **48.1302, 0.2376, 0.3599**.

# Distribution



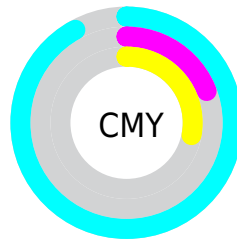
- Red (8%)
- Green (81%)
- Blue (72%)



- Red (8%)
- Yellow (47%)
- Blue (81%)



- Cyan (90%)
- Magenta (0%)
- Yellow (11%)
- Black (19%)




- Cyan (92%)
- Magenta (19%)
- Yellow (28%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 47.7102, 0.2359, 0.3642 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 47.7102, 0.2359, 0.3642 by changing the saturation by 10% instead.




 47.7102, 0.2359,  
0.3642

 47.7102, 0.2359,  
0.3642


377.6423, 0.2737,  
0.3469


 33.5974, 0.2267,  
0.3684


 86.7728, 0.2495,  
0.3580

 22.5845, 0.2151,  
0.3737


 112.4914, 0.2546,  
0.3557

 14.2870, 0.1999,  
0.3805


 142.8474, 0.2590,  
0.3537

 8.3206, 0.1794,  
0.3898

 178.2252, 0.2628,  
0.3520

 4.3007, 0.1504,  
0.4028

 219.0092, 0.2660,  
0.3505

 1.8432, 0.0922,  
0.4290

265.5838, 0.2689,

 0.5139, 0.0000,

0.3491

0.4654

318.3333, 0.2714,  
0.3480

■ 0.0000, 0.0000,  
0.0000

■ 47.7102, 0.2359,  
0.3642

■ 47.7102, 0.2359,  
0.3642

■ 47.4664, 0.2356,  
0.3683

■ 48.1302, 0.2376,  
0.3599

■ 48.7705, 0.2412,  
0.3556

■ 49.6636, 0.2467,  
0.3513

■ 50.8351, 0.2541,  
0.3471

■ 52.3077, 0.2632,  
0.3430

■ 54.1017, 0.2738,  
0.3392

■ 56.2355, 0.2857,  
0.3356

■ 58.7261, 0.2986,  
0.3322

■ 61.5896, 0.3121,  
0.3291

# Harmonies

## Analogous

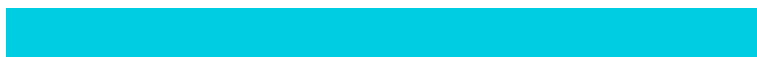
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



47.7102, 0.2896, 0.4243



47.7102, 0.2359, 0.3642



47.7102, 0.2044, 0.2984

# Triad

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



47.7102, 0.2359, 0.3642



47.7102, 0.2637, 0.2323



47.7102, 0.4396, 0.3894

# Complementary

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



47.7102, 0.2359, 0.3642



13.7842, 0.6014, 0.3172

# 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.



47.7102, 0.4343, 0.3402



47.7102, 0.2359, 0.3642



47.7102, 0.3262, 0.2547

# Square

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



47.7102, 0.2359, 0.3642



47.7102, 0.2194, 0.2301



47.7102, 0.3910, 0.2928



47.7102, 0.4082, 0.4309



# Rectangle

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



47.7102, 0.2359, 0.3642



47.7102, 0.1980, 0.2643



47.7102, 0.3910, 0.2928



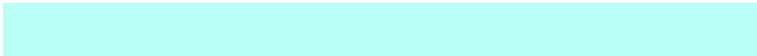
47.7102, 0.4423, 0.3733

# Sweetspot

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



47.7120, 0.2359, 0.3642



88.6627, 0.2774, 0.3380



44.7436, 0.3058, 0.5883



18.7367, 0.2734, 0.3393



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.



47.7120, 0.2359, 0.3642



76.8764, 0.2358, 0.3688



22.6895, 0.1952, 0.2164



12.7023, 0.3000, 0.3319



29.2351, 0.2355, 0.3676



1.5151, 0.2331, 0.3593



# Inverse Universe

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



13.7842, 0.6014, 0.3172



21.3614, 0.6275, 0.3231



20.1518, 0.5566, 0.3859



11.2358, 0.3271, 0.3262



8.1321, 0.6233, 0.3207

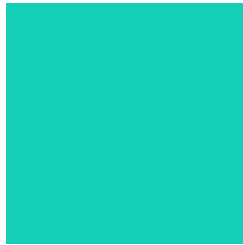


0.4272, 0.5812, 0.2976



# Previews

## White Background



This preview shows how the Yxy color 47.7102, 0.2359, 0.3642 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 47.7102, 0.2359, 0.3642 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

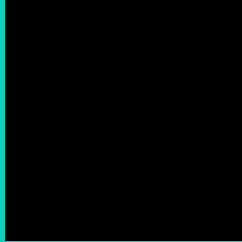
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

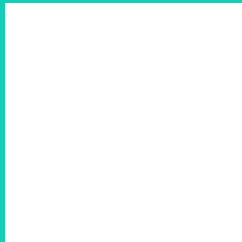
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 47.7102, 0.2359, 0.3642**

## **Background**



This preview shows how black text looks on a background with the Yxy color 47.7102, 0.2359, 0.3642.

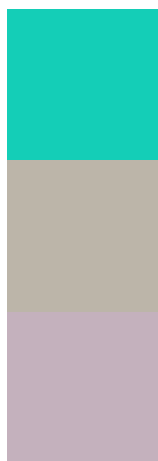


This preview shows how white text looks on a background with the Yxy color 47.7102, 0.2359, 0.3642.

# 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

47.7102, 0.2359, 0.3642

### Protanopia

46.6037, 0.3285, 0.3447

### Deuteranopia

46.8542, 0.3195, 0.3140



## Tritanopia

47.6238, 0.2251, 0.3060

# Trichromacy



## Original Color

47.7102, 0.2359, 0.3642



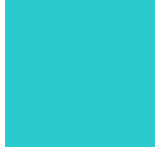
## Protanomaly

44.3949, 0.2763, 0.3524



## Deuteranomaly

44.4598, 0.2709, 0.3303



## Tritanomaly

47.6332, 0.2283, 0.3258

# Monochromacy



## Original Color

47.7102, 0.2359, 0.3642



## Achromatopsia

29.6138, 0.3127, 0.3290



## Achromatomaly

33.7158, 0.2637, 0.3421

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 47.7102, 0.2359, 0.3642 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(20, 206, 183)` looks like.

```
.text, #text, p{  
    color:rgb(20, 206, 183)  
}
```

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(20, 206, 183) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(20, 206, 183) }
```

## Border

The CSS property to change the border of an element to Yxy 47.7102, 0.2359, 0.3642 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(20, 206, 183) }
```

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

```
.border{ border-color:rgb(20, 206, 183) }
```

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

Here you see how a box with a 4 pixel `rgb(20, 206, 183)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(20, 206, 183); -webkit-box-  
shadow:4px 4px 4px 4px rgb(20, 206, 183);  
box-shadow:4px 4px 4px 4px rgb(20, 206,  
183) }
```



# Background

The CSS property to change the background color of an element to Yxy 47.7102, 0.2359, 0.3642 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(20, 206, 183) }
```

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

```
.background{ background-color: rgb(20, 206,  
183) }
```

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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