

# Converting Colors

$Y_{xy}(46.6525, 0.2271, 0.3228)$

Have a look what the booklet for  
Yxy(46.6525, 0.2271, 0.3228)  
contains.

<b>Yxy(46.6525, 0.2271, 0.3228)</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(46.6525, 0.2271, 0.3228)**

# Conversions

## Conversions Part 1

Format	Color
Hex	29C9CD
RGB	41, 201, 205
RGB Percent	16%, 79%, 80%
CMY	0.8394, 0.2118, 0.1960
CMYK	0.80, 0.02, 0.00, 0.20
HSL	181°, 67%, 48%
HSV	181°, 80%, 80%
XYZ	32.8215, 46.6525, 65.0505
YIQ	153.6160, -96.6440, -32.6760

# Conversions

## Conversions Part 2

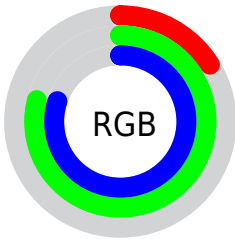
Format	Color
R <sub>Y</sub> B	41, 122, 205
Decimal	2738637
CIE Lab	73.97, -37.00, -13.33
CIE LCh	74, 39.330, 199.812
Yxy	46.6525, 0.2271, 0.3228
Android (android.graphics.Color)	4280928717 (0xFF29C9CD)
YUV	153.6160, 25.3323, -98.7642
Hunter-Lab	68.3026, -33.7549, -8.6551

# Details

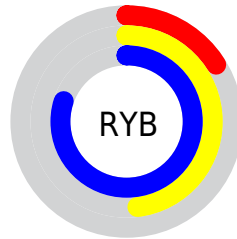
The Yxy color **46.6525, 0.2271, 0.3228** is a dark color, and the websafe version is hex **33CCCC**. The color can be described as middle muted cyan. A complement of this color would be **15.0185, 0.5876, 0.3327**, and the grayscale version is **32.0524, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.5916, 0.2440, 0.3288**, and **22.7921, 0.2219, 0.3188** is the 20% darker color. If you saturate the color by 10%, you get **46.1030, 0.2241, 0.3220**, and if you desaturate by 10%, it is **47.4254, 0.2319, 0.3236**.

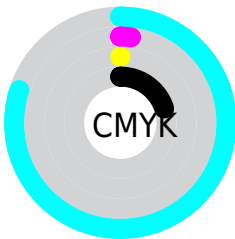
# Distribution



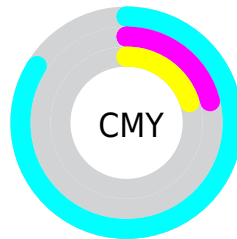
- Red (16%)
- Green (79%)
- Blue (80%)



- Red (16%)
- Yellow (48%)
- Blue (80%)



- Cyan (80%)
- Magenta (2%)
- Yellow (0%)
- Black (20%)




- Cyan (84%)
- Magenta (21%)
- Yellow (20%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.6525, 0.2271, 0.3228 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 46.6525, 0.2271, 0.3228 by changing the saturation by 10% instead.





 46.6525, 0.2271,  
0.3228

 46.6525, 0.2271,  
0.3228


373.4257, 0.2686,  
0.3272

 32.7610, 0.2172,  
0.3213


 85.1947, 0.2418,  
0.3247

 21.9434, 0.2049,  
0.3192


 110.6142, 0.2475,  
0.3253

 13.8153, 0.1889,  
0.3160


 140.6451, 0.2523,  
0.3258

 7.9923, 0.1679,  
0.3109

 175.6720, 0.2564,  
0.3262

 4.0901, 0.1390,  
0.3020

 216.0790, 0.2601,  
0.3265

 1.7241, 0.0940,  
0.2860

262.2508, 0.2632,

 0.4392, 0.0000,

0.3268

0.2285

314.5715, 0.2661,  
0.3270

■ 0.0000, 0.0000,  
0.0000

■ 46.6525, 0.2271,  
0.3228

■ 46.6525, 0.2271,  
0.3228

■ 46.1030, 0.2241,  
0.3220

■ 47.4254, 0.2319,  
0.3236

■ 45.7166, 0.2226,  
0.3212

■ 48.4466, 0.2386,  
0.3245

■ 49.7430, 0.2472,  
0.3253

■ 51.3369, 0.2575,  
0.3261

■ 53.2481, 0.2696,  
0.3269

■ 55.4949, 0.2829,  
0.3276

■ 58.0942, 0.2974,  
0.3283

■ 61.0615, 0.3127,  
0.3290

■ 64.4116, 0.3284,  
0.3296

# Harmonies

## Analogous

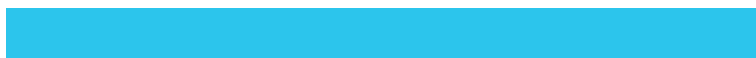
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



46.6525, 0.2624, 0.3785



46.6525, 0.2271, 0.3228



46.6525, 0.2138, 0.2756

# Triad

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



46.6525, 0.2271, 0.3228



46.6525, 0.3045, 0.2561



46.6525, 0.4071, 0.4061

# Complementary

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



46.6525, 0.2271, 0.3228



15.0185, 0.5876, 0.3327

# 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.



46.6525, 0.4226, 0.3676



46.6525, 0.2271, 0.3228



46.6525, 0.3606, 0.2852

# Square

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



46.6525, 0.2271, 0.3228



46.6525, 0.2553, 0.2427



46.6525, 0.4055, 0.3246



46.6525, 0.3663, 0.4280



# Rectangle

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



46.6525, 0.2271, 0.3228



46.6525, 0.2179, 0.2551



46.6525, 0.4055, 0.3246



46.6525, 0.4156, 0.3944

# Sweetspot

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



46.6542, 0.2271, 0.3228



89.2283, 0.2771, 0.3273



44.3268, 0.3005, 0.5741



18.8192, 0.2723, 0.3270



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.



46.6542, 0.2271, 0.3228



75.0321, 0.2230, 0.3214



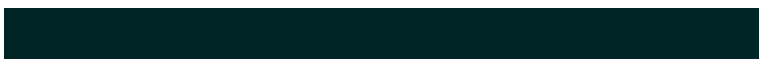
18.3747, 0.1918, 0.1887



12.6779, 0.2984, 0.3284



28.4727, 0.2226, 0.3213



1.4841, 0.2230, 0.3229



# Inverse Universe

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



18.7833, 0.3253, 0.1673



28.3205, 0.3269, 0.1584



27.9950, 0.4944, 0.4193



11.3988, 0.3142, 0.3067



10.6773, 0.3271, 0.1575

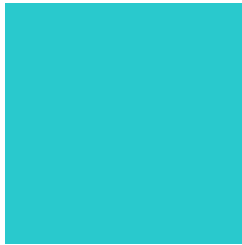


0.5524, 0.3258, 0.1568



# Previews

## White Background



This preview shows how the Yxy color 46.6525, 0.2271, 0.3228 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

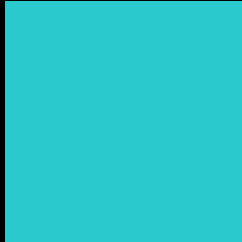
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.6525, 0.2271, 0.3228 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

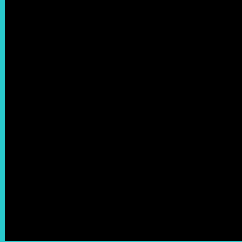
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

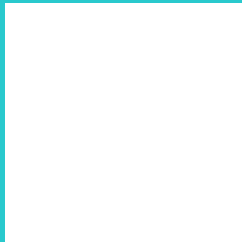
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 46.6525, 0.2271, 0.3228**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.6525, 0.2271, 0.3228.

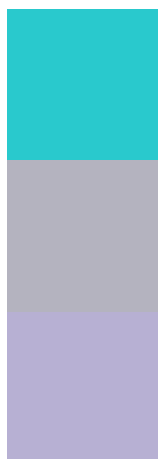


This preview shows how white text looks on a background with the Yxy color 46.6525, 0.2271, 0.3228.

# 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

46.6525, 0.2271, 0.3228

### Protanopia

45.7051, 0.3041, 0.3134

### Deuteranopia

45.8211, 0.2914, 0.2852



## Tritanopia

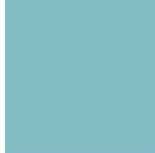
46.5085, 0.2237, 0.3043

# Trichromacy



## Original Color

46.6525, 0.2271, 0.3228



## Protanomaly

44.1933, 0.2631, 0.3161



## Deuteranomaly

44.1267, 0.2562, 0.2958



## Tritanomaly

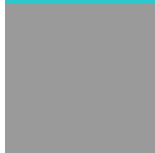
46.6664, 0.2249, 0.3113

# Monochromacy



## Original Color

46.6525, 0.2271, 0.3228



## Achromatopsia

32.3143, 0.3127, 0.3290



## Achromatomaly

35.6537, 0.2642, 0.3257

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.6525, 0.2271, 0.3228 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(41, 201, 205)` looks like.

```
.text, #text, p{  
    color:rgb(41, 201, 205)  
}
```

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(41, 201, 205) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(41, 201, 205) }
```

## Border

The CSS property to change the border of an element to Yxy 46.6525, 0.2271, 0.3228 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(41, 201, 205) }
```

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

```
.border{ border-color:rgb(41, 201, 205) }
```

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

Here you see how a box with a 4 pixel `rgb(41, 201, 205)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(41, 201, 205); -webkit-box-  
shadow:4px 4px 4px 4px rgb(41, 201, 205);  
box-shadow:4px 4px 4px 4px rgb(41, 201,  
205) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.6525, 0.2271, 0.3228 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(41, 201, 205) }
```

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

```
.background{ background-color: rgb(41, 201,  
205) }
```

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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