

# Converting Colors

$Y_{xy}(28.2269, 0.2360, 0.3520)$

Have a look what the booklet for  
Yxy(28.2269, 0.2360, 0.3520)  
contains.

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# Color

**$\text{Yxy}(28.3177, 0.2363, 0.3533)$**

# Conversions

## Conversions Part 1

Format	Color
Hex	20A295
RGB	32, 162, 149
RGB Percent	13%, 64%, 58%
CMY	0.8744, 0.3647, 0.4157
CMYK	0.80, 0.00, 0.08, 0.36
HSL	174°, 67%, 38%
HSV	174°, 80%, 64%
XYZ	18.9399, 28.3177, 32.8944
YIQ	121.6480, -73.3070, -31.6030

# Conversions

## Conversions Part 2

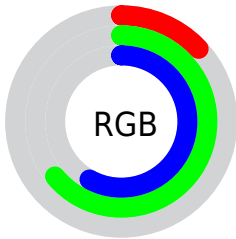
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	32, 100, 162
Decimal	2138773
CIE Lab	60.17, -36.29, -2.86
CIE LCh	60, 36.407, 184.511
Yxy	28.3177, 0.2363, 0.3533
Android (android.graphics.Color)	4280328853 (0xFF20A295)
YUV	121.6480, 13.4845, -78.6213
Hunter-Lab	53.2144, -29.5939, 0.6000

# Details

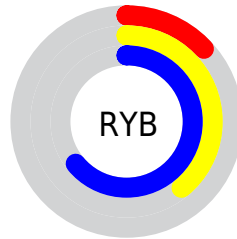
The Yxy color **28.3177, 0.2363, 0.3533** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **8.9054, 0.5643, 0.3162**, and the grayscale version is **19.3163, 0.3127, 0.3290**.

A 20% lighter version of the original color is **56.7623, 0.2518, 0.3480**, and **11.8191, 0.2331, 0.3590** is the 20% darker color. If you saturate the color by 10%, you get **28.0685, 0.2342, 0.3567**, and if you desaturate by 10%, it is **28.6973, 0.2403, 0.3499**.

# Distribution



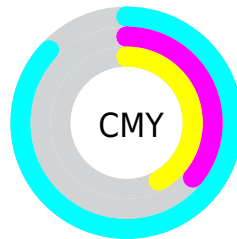
- Red (13%)
- Green (64%)
- Blue (58%)



- Red (13%)
- Yellow (39%)
- Blue (64%)



- Cyan (80%)
- Magenta (0%)
- Yellow (8%)
- Black (36%)




- Cyan (87%)
- Magenta (36%)
- Yellow (42%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 28.3177, 0.2363, 0.3533 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 28.3177, 0.2363, 0.3533 by changing the saturation by 10% instead.





 28.3177, 0.2363,  
0.3533

 28.3177, 0.2363,  
0.3533


293.9819, 0.2771,  
0.3407

 18.5653, 0.2253,  
0.3565


 56.9913, 0.2517,  
0.3486


 11.3566, 0.2106,  
0.3607

 76.6812, 0.2573,  
0.3469

 6.3072, 0.1903,  
0.3663


 100.4524, 0.2620,  
0.3455

 3.0328, 0.1605,  
0.3738

 128.6894, 0.2660,  
0.3442

 1.1489, 0.0650,  
0.4048

 161.7764, 0.2693,  
0.3432

 0.0193, 0.0000,  
0.0804

 200.0979, 0.2723,

 0.0000, 0.0000,

0.3422

0.0000

244.0383, 0.2748,  
0.3414

■ 28.3177, 0.2363,  
0.3533

■ 28.3177, 0.2363,  
0.3533

■ 28.0685, 0.2342,  
0.3567

■ 28.6973, 0.2403,  
0.3499

■ 27.9104, 0.2333,  
0.3599

■ 29.2206, 0.2461,  
0.3465

■ 29.9027, 0.2537,  
0.3432

■ 30.7559, 0.2630,  
0.3400

■ 31.7916, 0.2738,  
0.3370

■ 33.0198, 0.2858,  
0.3341

■ 34.4499, 0.2987,  
0.3315

■ 36.0910, 0.3124,  
0.3291

■ 37.9511, 0.3264,  
0.3269

# Harmonies

## Analogous

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



28.3177, 0.2843, 0.4104



28.3177, 0.2363, 0.3533



28.3177, 0.2097, 0.2941

# Triad

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



28.3177, 0.2363, 0.3533



28.3177, 0.2743, 0.2404



28.3177, 0.4283, 0.3918

# Complementary

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



28.3177, 0.2363, 0.3533



8.9054, 0.5643, 0.3162

# 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.



28.3177, 0.4279, 0.3463



28.3177, 0.2363, 0.3533



28.3177, 0.3337, 0.2637

# Square

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



28.3177, 0.2363, 0.3533



28.3177, 0.2301, 0.2359



28.3177, 0.3920, 0.3011



28.3177, 0.3959, 0.4276



# Rectangle

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



28.3177, 0.2363, 0.3533



28.3177, 0.2058, 0.2643



28.3177, 0.3920, 0.3011



28.3177, 0.4322, 0.3771

# Sweetspot

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



28.3188, 0.2363, 0.3533



58.9577, 0.2806, 0.3353



26.5550, 0.3079, 0.5692



13.0737, 0.2765, 0.3363



82.7571, 0.3127, 0.3290



14.7319, 0.3127, 0.3290



# Same Dimension

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



28.3188, 0.2363, 0.3533



50.7416, 0.2336, 0.3592



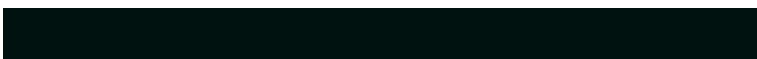
14.5431, 0.2027, 0.2280



7.9990, 0.3000, 0.3312



21.9910, 0.2332, 0.3597



0.4654, 0.2298, 0.3474



# Inverse Universe

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



8.9054, 0.5643, 0.3162



14.2167, 0.6214, 0.3229



13.7973, 0.5185, 0.3938



7.0970, 0.3270, 0.3268



6.0848, 0.6257, 0.3221



0.1311, 0.5691, 0.2909



# Previews

## White Background



This preview shows how the Yxy color 28.3177, 0.2363, 0.3533 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 28.3177, 0.2363, 0.3533 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

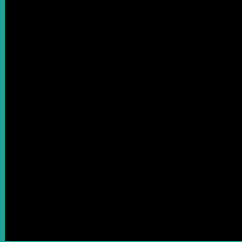
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 28.3177, 0.2363, 0.3533**

## Background



This preview shows how black text looks on a background with the Yxy color 28.3177, 0.2363, 0.3533.

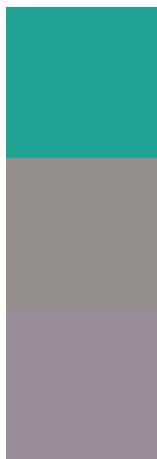


This preview shows how white text looks on a background with the Yxy color 28.3177, 0.2363, 0.3533.

# 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

28.3177, 0.2363, 0.3533

### Protanopia

27.7758, 0.3231, 0.3371

### Deuteranopia

27.9593, 0.3137, 0.3074



## Tritanopia

28.4278, 0.2271, 0.3059

# Trichromacy



## Original Color

28.3177, 0.2363, 0.3533



## Protanomaly

26.8299, 0.2780, 0.3431



## Deuteranomaly

26.7618, 0.2729, 0.3219



## Tritanomaly

28.3355, 0.2300, 0.3215

# Monochromacy



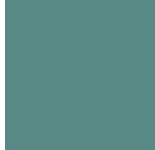
## Original Color

28.3177, 0.2363, 0.3533



## Achromatopsia

19.4618, 0.3127, 0.3290



## Achromatomaly

21.6811, 0.2691, 0.3387

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 28.3177, 0.2363, 0.3533 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(32, 162, 149)` looks like.

```
.text, #text, p{  
  color:rgb(32, 162, 149)  
}
```

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(32, 162, 149) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(32, 162, 149) }
```

## Border

The CSS property to change the border of an element to Yxy 28.3177, 0.2363, 0.3533 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(32, 162, 149) }
```

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

```
.border{ border-color:rgb(32, 162, 149) }
```

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

Here you see how a box with a 4 pixel rgb(32, 162, 149) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(32, 162, 149); -webkit-box-  
shadow:4px 4px 4px 4px rgb(32, 162, 149);  
box-shadow:4px 4px 4px 4px rgb(32, 162,  
149) }
```



# Background

The CSS property to change the background color of an element to Yxy 28.3177, 0.2363, 0.3533 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(32, 162, 149) }
```

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

```
.background{ background-color: rgb(32, 162,  
149) }
```

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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