

Converting Colors

$Y_{xy}(33.5016, 0.2230, 0.2999)$

Have a look what the booklet for
Yxy(33.5016, 0.2230, 0.2999)
contains.

Yxy(33.3578, 0.2228, 0.2993)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(33.3578, 0.2228, 0.2993)

Conversions

Conversions Part 1

Format	Color
Hex	2DABBD
RGB	45, 171, 189
RGB Percent	18%, 67%, 74%
CMY	0.8231, 0.3294, 0.2589
CMYK	0.76, 0.10, 0.00, 0.26
HSL	187°, 61%, 46%
HSV	187°, 76%, 74%
XYZ	24.8317, 33.3578, 53.2633
YIQ	135.3780, -80.8740, -21.1140

Conversions

Conversions Part 2

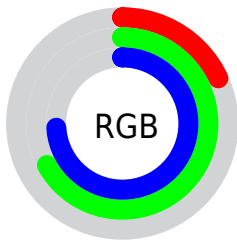
Format	Color
R _Y B	45, 112, 189
Decimal	2993085
CIE Lab	64.45, -27.13, -18.88
CIE LCh	64, 33.051, 214.838
Yxy	33.3578, 0.2228, 0.2993
Android (android.graphics.Color)	4281183165 (0xFF2DABBD)
YUV	135.3780, 26.4356, -79.2615
Hunter-Lab	57.7562, -24.3292, -14.2484

Details

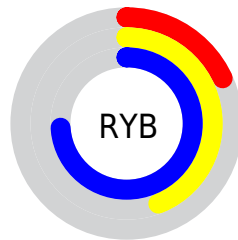
The Yxy color **33.3578, 0.2228, 0.2993** is a dark color, and the websafe version is hex **339999**. A complement of this color would be **14.5710, 0.5548, 0.3478**, and the grayscale version is **24.3092, 0.3127, 0.3290**.

A 20% lighter version of the original color is **65.1081, 0.2397, 0.3067**, and **14.7344, 0.2133, 0.2877** is the 20% darker color. If you saturate the color by 10%, you get **32.1368, 0.2178, 0.2949**, and if you desaturate by 10%, it is **34.7891, 0.2297, 0.3037**.

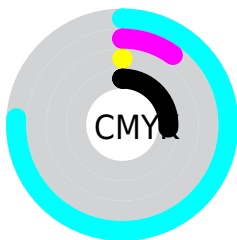
Distribution



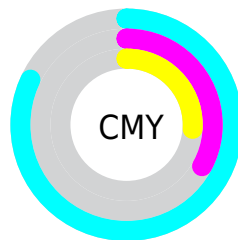
- Red (18%)
- Green (67%)
- Blue (74%)



- Red (18%)
- Yellow (44%)
- Blue (74%)



- Cyan (76%)
- Magenta (10%)
- Yellow (0%)
- Black (26%)




- Cyan (82%)
- Magenta (33%)
- Yellow (26%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 33.3578, 0.2228, 0.2993 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 33.3578, 0.2228, 0.2993 by changing the saturation by 10% instead.


 33.3578, 0.2228,
0.2993


 33.3578, 0.2228,
0.2993


317.2589, 0.2686,
0.3163


 22.4007, 0.2113,
0.2943


 64.9337, 0.2395,
0.3060

 14.1516, 0.1965,
0.2875


 86.3214, 0.2458,
0.3084

 8.2262, 0.1770,
0.2778


 111.9546, 0.2511,
0.3103

 4.2400, 0.1503,
0.2627

 142.2178, 0.2556,
0.3119

 1.8087, 0.1127,
0.2375

 177.4955, 0.2595,
0.3133

 0.4926, 0.0000,
0.1857

218.1720, 0.2629,

 0.0000, 0.0000,

0.3144

0.0000

264.6317, 0.2659,
0.3154

■ 33.3578, 0.2228,
0.2993

■ 33.3578, 0.2228,
0.2993

■ 32.1368, 0.2178,
0.2949

■ 34.7891, 0.2297,
0.3037

■ 31.0931, 0.2146,
0.2906

■ 36.4499, 0.2384,
0.3080

■ 30.7145, 0.2136,
0.2890

■ 38.3608, 0.2489,
0.3122

■ 40.5395, 0.2609,
0.3163

■ 43.0016, 0.2742,
0.3201

■ 45.7617, 0.2884,
0.3238

■ 48.8333, 0.3033,
0.3271

■ 52.2289, 0.3187,
0.3301

■ 55.9605, 0.3341,
0.3329

Harmonies

Analogous

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



33.3578, 0.2463, 0.3496



33.3578, 0.2228, 0.2993



33.3578, 0.2212, 0.2635

Triad

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



33.3578, 0.2228, 0.2993



33.3578, 0.3317, 0.2723



33.3578, 0.3849, 0.4148

Complementary

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



33.3578, 0.2228, 0.2993



14.5710, 0.5548, 0.3478

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.



33.3578, 0.4124, 0.3852



33.3578, 0.2228, 0.2993



33.3578, 0.3813, 0.3056

Square

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



33.3578, 0.2228, 0.2993



33.3578, 0.2803, 0.2516



33.3578, 0.4118, 0.3456



33.3578, 0.3390, 0.4219

Rectangle

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



33.3578, 0.2228, 0.2993



33.3578, 0.2322, 0.2507



33.3578, 0.4118, 0.3456



33.3578, 0.3967, 0.4068

Sweetspot

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



33.3590, 0.2228, 0.2993



78.3459, 0.2780, 0.3212



37.2942, 0.2958, 0.5475



16.4804, 0.2730, 0.3198



95.5105, 0.3127, 0.3290



19.5994, 0.3127, 0.3290

Same Dimension

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



33.3590, 0.2228, 0.2993



56.3551, 0.2156, 0.2922



13.3968, 0.1900, 0.1713



10.6005, 0.2985, 0.3261



20.7467, 0.2138, 0.2895



0.8704, 0.2166, 0.2998

Inverse Universe

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



15.6412, 0.3447, 0.1842



24.9591, 0.3521, 0.1744



28.0093, 0.4660, 0.4357



9.6752, 0.3156, 0.3092



9.1241, 0.3548, 0.1728



0.3632, 0.3456, 0.1677

Previews

White Background



This preview shows how the Yxy color 33.3578, 0.2228, 0.2993 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 33.3578, 0.2228, 0.2993 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

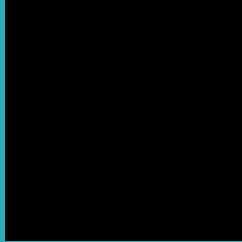
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 33.3578, 0.2228, 0.2993

Background



This preview shows how black text looks on a background with the Yxy color 33.3578, 0.2228, 0.2993.

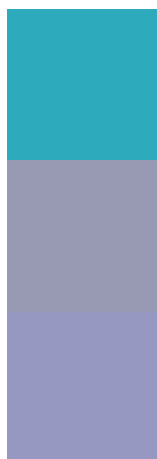


This preview shows how white text looks on a background with the Yxy color 33.3578, 0.2228, 0.2993.

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

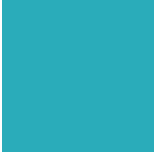
33.3578, 0.2228, 0.2993

Protanopia

32.9049, 0.2888, 0.2937

Deuteranopia

32.8860, 0.2766, 0.2706



Tritanopia

33.5425, 0.2239, 0.3056

Trichromacy



Original Color

33.3578, 0.2228, 0.2993

Protanomaly

31.9638, 0.2550, 0.2943

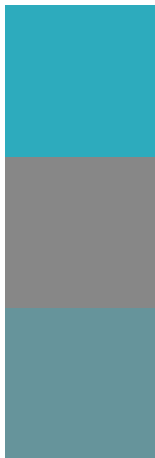
Deuteranomaly

32.0468, 0.2482, 0.2782

Tritanomaly

33.6065, 0.2237, 0.3041

Monochromacy



Original Color

33.3578, 0.2228, 0.2993

Achromatopsia

24.2281, 0.3127, 0.3290

Achromatomaly

26.3711, 0.2639, 0.3166

CSS Examples

Text

The CSS property to change the color of the text to Yxy 33.3578, 0.2228, 0.2993 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(45, 171, 189)` looks like.

```
.text, #text, p{  
    color:rgb(45, 171, 189)  
}
```

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(45, 171, 189) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 171, 189) }
```

Border

The CSS property to change the border of an element to Yxy 33.3578, 0.2228, 0.2993 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(45, 171, 189) }
```

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

```
.border{ border-color:rgb(45, 171, 189) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 171, 189)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 171, 189); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 171, 189);  
box-shadow:4px 4px 4px 4px rgb(45, 171,  
189) }
```


Background

The CSS property to change the background color of an element to Yxy 33.3578, 0.2228, 0.2993 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 171, 189) }
```

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

```
.background{ background-color: rgb(45, 171,  
189) }
```

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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