

Converting Colors

$Y_{xy}(31.2232, 0.2759, 0.4336)$

Have a look what the booklet for
Yxy(31.2232, 0.2759, 0.4336)
contains.

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Color

Yxy(31.2296, 0.2759, 0.4338)

Conversions

Conversions Part 1

Format	Color
Hex	45AA72
RGB	69, 170, 114
RGB Percent	27%, 67%, 45%
CMY	0.7297, 0.3333, 0.5530
CMYK	0.59, 0.00, 0.33, 0.33
HSL	147°, 42%, 47%
HSV	147°, 59%, 67%
XYZ	19.8623, 31.2296, 20.8989
YIQ	133.4170, -42.2200, -38.8280

Conversions

Conversions Part 2

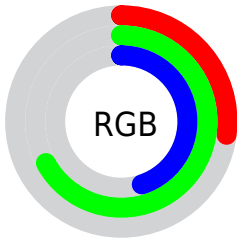
Format	Color
RYB	69, 139, 170
Decimal	4565618
CIELab	62.70, -42.52, 20.32
CIELCh	63, 47.125, 154.452
Yxy	31.2296, 0.2759, 0.4338
Android (android.graphics.Color)	4282755698 (0xFF45AA72)
YUV	133.4170, -9.5726, -56.4937
Hunter-Lab	55.8835, -34.3531, 16.9455

Details

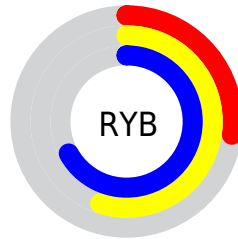
The Yxy color **31.2296, 0.2759, 0.4338** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **14.2743, 0.3887, 0.2477**, and the grayscale version is **23.6566, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.5815, 0.2846, 0.4106**, and **13.1042, 0.2654, 0.4754** is the 20% darker color. If you saturate the color by 10%, you get **30.4928, 0.2735, 0.4552**, and if you desaturate by 10%, it is **32.1691, 0.2799, 0.4129**.

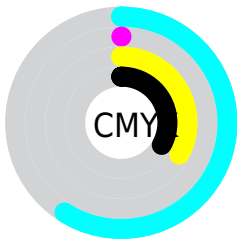
Distribution



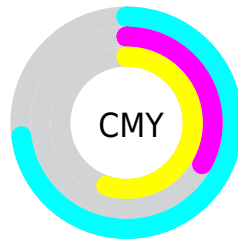
- Red (27%)
- Green (67%)
- Blue (45%)



- Red (27%)
- Yellow (55%)
- Blue (67%)



- Cyan (59%)
- Magenta (0%)
- Yellow (33%)
- Black (33%)




- Cyan (73%)
- Magenta (33%)
- Yellow (55%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 31.2296, 0.2759, 0.4338 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 31.2296, 0.2759, 0.4338 by changing the saturation by 10% instead.


 31.2296, 0.2759,
0.4338


 31.2296, 0.2759,
0.4338

307.5947, 0.2972,
0.3746

 20.7737, 0.2694,
0.4513


 61.6014, 0.2844,
0.4104


 12.9587, 0.2602,
0.4755

 82.2861, 0.2874,
0.4022


 7.4001, 0.2464,
0.5112


 107.1492, 0.2898,
0.3955

 3.7136, 0.2235,
0.5684

 136.5751, 0.2918,
0.3899

 1.5147, 0.1552,
0.7875

 170.9482, 0.2934,
0.3852

 0.2990, 0.0000,
1.0000

210.6529, 0.2949,

 0.0000, 0.0000,

0.3812

0.0000

256.0736, 0.2961,
0.3777

■ 31.2296, 0.2759,
0.4338

■ 31.2296, 0.2759,
0.4338

■ 30.4928, 0.2735,
0.4552

■ 32.1691, 0.2799,
0.4129

■ 29.9385, 0.2729,
0.4766

■ 33.3220, 0.2852,
0.3930

■ 29.5488, 0.2741,
0.4972

■ 34.7025, 0.2915,
0.3744

■ 29.2855, 0.2769,
0.5164

■ 36.3228, 0.2984,
0.3574

■ 29.2723, 0.2771,
0.5174

■ 38.1940, 0.3057,
0.3420

■ 40.3264, 0.3131,
0.3283

■ 42.7300, 0.3206,
0.3161

■ 45.4140, 0.3279,
0.3054

■ 48.3873, 0.3349,
0.2959

Harmonies

Analogous

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



31.2296, 0.3476, 0.4675



31.2296, 0.2759, 0.4338



31.2296, 0.2181, 0.3588

Triad

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



31.2296, 0.2759, 0.4338



31.2296, 0.2116, 0.2156



31.2296, 0.4568, 0.3471

Complementary

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



31.2296, 0.2759, 0.4338



14.2743, 0.3887, 0.2477

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.



31.2296, 0.4118, 0.2936



31.2296, 0.2759, 0.4338



31.2296, 0.2644, 0.2217

Square

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



31.2296, 0.2759, 0.4338



31.2296, 0.1855, 0.2349



31.2296, 0.3378, 0.2494



31.2296, 0.4556, 0.4025

Rectangle

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



31.2296, 0.2759, 0.4338



31.2296, 0.1942, 0.3065



31.2296, 0.3378, 0.2494



31.2296, 0.4466, 0.3287

Sweetspot

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



31.2309, 0.2759, 0.4338



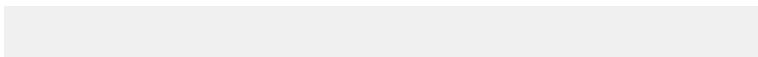
66.2550, 0.2992, 0.3556



33.6337, 0.3513, 0.4906



14.5754, 0.2972, 0.3602



86.8899, 0.3127, 0.3290



16.2647, 0.3127, 0.3290

Same Dimension

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



31.2309, 0.2759, 0.4338



55.0012, 0.2731, 0.4613



32.6702, 0.2444, 0.3404



8.4613, 0.3058, 0.3418



21.5411, 0.2765, 0.5155



0.5345, 0.2581, 0.4492

Inverse Universe

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



14.2743, 0.3887, 0.2477



21.4655, 0.4140, 0.2366



13.3122, 0.4807, 0.3200



7.6093, 0.3203, 0.3166



6.8952, 0.4698, 0.2362



0.1778, 0.4087, 0.2025

Previews

White Background



This preview shows how the Yxy color 31.2296, 0.2759, 0.4338 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 31.2296, 0.2759, 0.4338 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 31.2296, 0.2759, 0.4338

Background



This preview shows how black text looks on a background with the Yxy color 31.2296, 0.2759, 0.4338.



This preview shows how white text looks on a background with the Yxy color 31.2296, 0.2759, 0.4338.

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

31.2296, 0.2759, 0.4338

Protanopia

30.9604, 0.3697, 0.3978

Deuteranopia

30.8370, 0.3726, 0.3657



Tritanopia

31.0105, 0.2445, 0.3072

Trichromacy



Original Color

31.2296, 0.2759, 0.4338



Protanomaly

30.2250, 0.3280, 0.4123



Deuteranomaly

29.7376, 0.3289, 0.3891



Tritanomaly

30.9595, 0.2554, 0.3499

Monochromacy



Original Color

31.2296, 0.2759, 0.4338



Achromatopsia

23.4551, 0.3127, 0.3290



Achromatomaly

25.3791, 0.2950, 0.3656

CSS Examples

Text

The CSS property to change the color of the text to Yxy 31.2296, 0.2759, 0.4338 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(69, 170, 114)` looks like.

```
.text, #text, p{  
    color:rgb(69, 170, 114)  
}
```

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(69, 170, 114) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 170, 114) }
```

Border

The CSS property to change the border of an element to Yxy 31.2296, 0.2759, 0.4338 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(69, 170, 114) }
```

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

```
.border{ border-color:rgb(69, 170, 114) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 170, 114)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 170, 114); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 170, 114);  
box-shadow:4px 4px 4px 4px rgb(69, 170,  
114) }
```


Background

The CSS property to change the background color of an element to Yxy 31.2296, 0.2759, 0.4338 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 170, 114) }
```

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

```
.background{ background-color: rgb(69, 170,  
114) }
```

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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