

Converting Colors

$Y_{xy}(31.6441, 0.2355, 0.3512)$

Have a look what the booklet for
Yxy(31.6441, 0.2355, 0.3512)
contains.

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Color

Yxy(31.5414, 0.2352, 0.3503)

Conversions

Conversions Part 1

Format	Color
Hex	21AA9E
RGB	33, 170, 158
RGB Percent	13%, 67%, 62%
CMY	0.8699, 0.3334, 0.3804
CMYK	0.80, 0.00, 0.07, 0.33
HSL	175°, 67%, 40%
HSV	175°, 80%, 67%
XYZ	21.1777, 31.5414, 37.3220
YIQ	127.6690, -77.8000, -32.7760

Conversions

Conversions Part 2

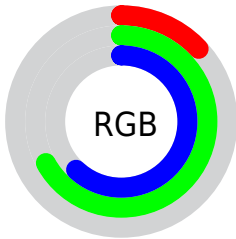
Format	Color
R _Y B	33, 105, 170
Decimal	2206366
CIE Lab	62.96, -37.23, -3.83
CIE LCh	63, 37.428, 185.869
Yxy	31.5414, 0.2352, 0.3503
Android (android.graphics.Color)	4280396446 (0xFF21AA9E)
YUV	127.6690, 14.9532, -83.0247
Hunter-Lab	56.1617, -30.9736, -0.0877

Details

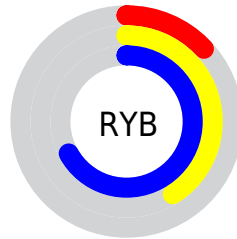
The Yxy color **31.5414, 0.2352, 0.3503** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **9.8334, 0.5696, 0.3182**, and the grayscale version is **21.4510, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.1399, 0.2500, 0.3459**, and **13.7841, 0.2318, 0.3544** is the 20% darker color. If you saturate the color by 10%, you get **31.2771, 0.2330, 0.3532**, and if you desaturate by 10%, it is **31.9505, 0.2392, 0.3473**.

Distribution



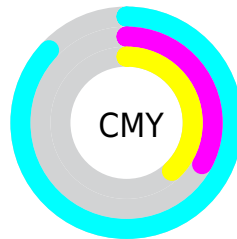
- Red (13%)
- Green (67%)
- Blue (62%)



- Red (13%)
- Yellow (41%)
- Blue (67%)



- Cyan (80%)
- Magenta (0%)
- Yellow (7%)
- Black (33%)





- Cyan (87%)
- Magenta (33%)
- Yellow (38%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 31.5414, 0.2352, 0.3503 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 31.5414, 0.2352, 0.3503 by changing the saturation by 10% instead.


 31.5414, 0.2352,
0.3503


 31.5414, 0.2352,
0.3503


309.0248, 0.2758,
0.3396

 21.0115, 0.2245,
0.3529


 62.0915, 0.2504,
0.3464


 13.1324, 0.2105,
0.3562

 82.8804, 0.2559,
0.3450


 7.5198, 0.1914,
0.3604


 107.8577, 0.2606,
0.3438

 3.7892, 0.1639,
0.3658

 137.4079, 0.2646,
0.3427

 1.5564, 0.1103,
0.3772

 171.9153, 0.2680,
0.3418

 0.3279, 0.0000,
0.3442

211.7643, 0.2709,

 0.0000, 0.0000,

0.3410

0.0000

257.3394, 0.2735,
0.3403

■ 31.5414, 0.2352,
0.3503

■ 31.5414, 0.2352,
0.3503

■ 31.2771, 0.2330,
0.3532

■ 31.9505, 0.2392,
0.3473

■ 31.1175, 0.2322,
0.3560

■ 32.5196, 0.2450,
0.3444

■ 33.2658, 0.2527,
0.3415

■ 34.2031, 0.2620,
0.3387

■ 35.3441, 0.2729,
0.3361

■ 36.7004, 0.2850,
0.3336

■ 38.2825, 0.2982,
0.3312

■ 40.1004, 0.3120,
0.3291

■ 42.1636, 0.3263,
0.3272

Harmonies

Analogous

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



31.5414, 0.2821, 0.4076



31.5414, 0.2352, 0.3503



31.5414, 0.2099, 0.2922

Triad

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



31.5414, 0.2352, 0.3503



31.5414, 0.2771, 0.2417



31.5414, 0.4266, 0.3934

Complementary

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



31.5414, 0.2352, 0.3503



9.8334, 0.5696, 0.3182

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.



31.5414, 0.4277, 0.3483



31.5414, 0.2352, 0.3503



31.5414, 0.3363, 0.2656

Square

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



31.5414, 0.2352, 0.3503



31.5414, 0.2323, 0.2363



31.5414, 0.3936, 0.3033



31.5414, 0.3933, 0.4280

Rectangle

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



31.5414, 0.2352, 0.3503



31.5414, 0.2067, 0.2632



31.5414, 0.3936, 0.3033



31.5414, 0.4310, 0.3789

Sweetspot

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



31.5426, 0.2352, 0.3503



65.5738, 0.2801, 0.3345



29.4592, 0.3066, 0.5711



14.4350, 0.2759, 0.3354



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.



31.5426, 0.2352, 0.3503



56.5174, 0.2325, 0.3556



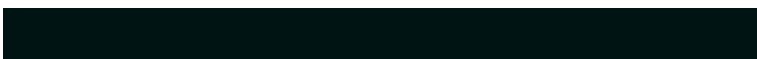
15.5503, 0.2010, 0.2225



8.5206, 0.2998, 0.3310



22.8961, 0.2321, 0.3557



0.5602, 0.2295, 0.3460

Inverse Universe

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



9.8334, 0.5696, 0.3182



15.7228, 0.6262, 0.3246



15.6194, 0.5168, 0.3969



7.5526, 0.3272, 0.3271



6.3155, 0.6280, 0.3233



0.1569, 0.5796, 0.2966

Previews

White Background



This preview shows how the Yxy color 31.5414, 0.2352, 0.3503 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 31.5414, 0.2352, 0.3503 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

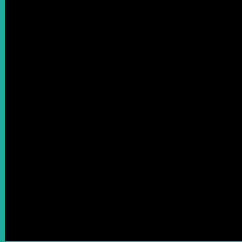
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 31.5414, 0.2352, 0.3503

Background



This preview shows how black text looks on a background with the Yxy color 31.5414, 0.2352, 0.3503.

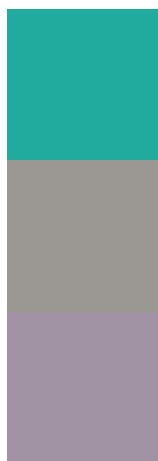


This preview shows how white text looks on a background with the Yxy color 31.5414, 0.2352, 0.3503.

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

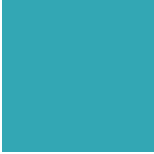
31.5414, 0.2352, 0.3503

Protanopia

31.2084, 0.3206, 0.3352

Deuteranopia

31.0888, 0.3118, 0.3054



Tritanopia

31.6365, 0.2272, 0.3068

Trichromacy



Original Color

31.5414, 0.2352, 0.3503



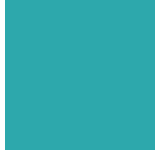
Protanomaly

30.0676, 0.2762, 0.3408



Deuteranomaly

29.6607, 0.2712, 0.3189



Tritanomaly

31.5417, 0.2299, 0.3218

Monochromacy



Original Color

31.5414, 0.2352, 0.3503



Achromatopsia

21.5861, 0.3127, 0.3290



Achromatomaly

23.8887, 0.2689, 0.3364

CSS Examples

Text

The CSS property to change the color of the text to Yxy 31.5414, 0.2352, 0.3503 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(33, 170, 158)` looks like.

```
.text, #text, p{  
  color:rgb(33, 170, 158)  
}
```

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(33, 170, 158) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 170, 158) }
```

Border

The CSS property to change the border of an element to Yxy 31.5414, 0.2352, 0.3503 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(33, 170, 158) }
```

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

```
.border{ border-color:rgb(33, 170, 158) }
```

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

Here you see how a box with a 4 pixel `rgb(33, 170, 158)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 170, 158); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 170, 158);  
box-shadow:4px 4px 4px 4px rgb(33, 170,  
158) }
```


Background

The CSS property to change the background color of an element to Yxy 31.5414, 0.2352, 0.3503 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 170, 158) }
```

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

```
.background{ background-color: rgb(33, 170,  
158) }
```

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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