

Converting Colors

$Y_{xy}(36.0857, 0.2113, 0.2702)$

Have a look what the booklet for
Yxy(36.0857, 0.2113, 0.2702)
contains.

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Color

Yxy(36.2128, 0.2115, 0.2711)

Conversions

Conversions Part 1

Format	Color
Hex	20B0D6
RGB	32, 176, 214
RGB Percent	13%, 69%, 84%
CMY	0.8755, 0.3097, 0.1608
CMYK	0.85, 0.18, 0.00, 0.16
HSL	193°, 74%, 48%
HSV	193°, 85%, 84%
XYZ	28.2516, 36.2128, 69.1129
YIQ	137.2760, -98.0220, -18.7100

Conversions

Conversions Part 2

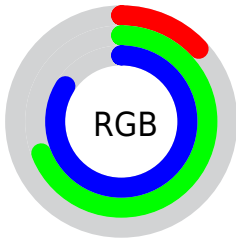
Format	Color
RYB	32, 112, 214
Decimal	2142422
CIELab	66.68, -22.70, -29.33
CIELCh	67, 37.087, 232.255
Yxy	36.2128, 0.2115, 0.2711
Android (android.graphics.Color)	4280332502 (0xFF20B0D6)
YUV	137.2760, 37.8249, -92.3271
Hunter-Lab	60.1771, -21.5087, -25.9701

Details

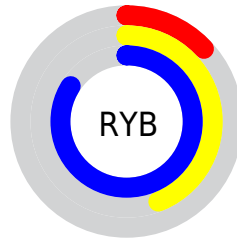
The Yxy color **36.2128, 0.2115, 0.2711** is a dark color, and the websafe version is hex **33CCFF**. The color can be described as middle washed azure. A complement of this color would be **18.7450, 0.5769, 0.3585**, and the grayscale version is **24.9818, 0.3127, 0.3290**.

A 20% lighter version of the original color is **68.3780, 0.2361, 0.3013**, and **16.6691, 0.2042, 0.2552** is the 20% darker color. If you saturate the color by 10%, you get **34.2573, 0.2072, 0.2635**, and if you desaturate by 10%, it is **38.4499, 0.2177, 0.2788**.

Distribution



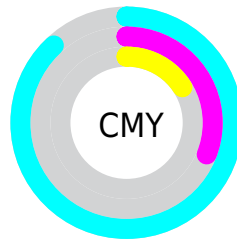
- Red (13%)
- Green (69%)
- Blue (84%)



- Red (13%)
- Yellow (44%)
- Blue (84%)



- Cyan (85%)
- Magenta (18%)
- Yellow (0%)
- Black (16%)





- Cyan (88%)
- Magenta (31%)
- Yellow (16%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 36.2128, 0.2115, 0.2711 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 36.2128, 0.2115, 0.2711 by changing the saturation by 10% instead.

 36.2128, 0.2115,
0.2711

 36.2128, 0.2115,
0.2711


329.8897, 0.2617,
0.3022


 24.5986, 0.1994,
0.2628


 69.3604, 0.2295,
0.2828

 15.7782, 0.1841,
0.2520


 91.6626, 0.2364,
0.2871


 9.3674, 0.1645,
0.2373


 118.2962, 0.2422,
0.2906

 4.9816, 0.1386,
0.2165

 149.6456, 0.2472,
0.2937

 2.2365, 0.1041,
0.1856

 186.0953, 0.2515,
0.2962

 0.7398, 0.0284,
0.1409

228.0296, 0.2553,

 0.0000, 0.0000,

0.2985

0.0000

275.8329, 0.2587,
0.3004

■ 36.2128, 0.2115,
0.2711

■ 36.2128, 0.2115,
0.2711

■ 34.2573, 0.2072,
0.2635

■ 38.4499, 0.2177,
0.2788

■ 33.3782, 0.2055,
0.2599

■ 41.0026, 0.2259,
0.2864

■ 43.9034, 0.2359,
0.2939

■ 47.1790, 0.2476,
0.3012

■ 50.8533, 0.2606,
0.3082

■ 54.9479, 0.2747,
0.3147

■ 59.4828, 0.2895,
0.3208

■ 64.4766, 0.3048,
0.3263

■ 69.9465, 0.3202,
0.3314

Harmonies

Analogous

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



36.2128, 0.2230, 0.3180



36.2128, 0.2115, 0.2711



36.2128, 0.2234, 0.2452

Triad

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



36.2128, 0.2115, 0.2711



36.2128, 0.3663, 0.2871



36.2128, 0.3633, 0.4312

Complementary

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



36.2128, 0.2115, 0.2711



18.7450, 0.5769, 0.3585

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.



36.2128, 0.4068, 0.4105



36.2128, 0.2115, 0.2711



36.2128, 0.4106, 0.3279

Square

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



36.2128, 0.2115, 0.2711



36.2128, 0.3089, 0.2563



36.2128, 0.4253, 0.3718



36.2128, 0.3084, 0.4199

Rectangle

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



36.2128, 0.2115, 0.2711



36.2128, 0.2438, 0.2402



36.2128, 0.4253, 0.3718



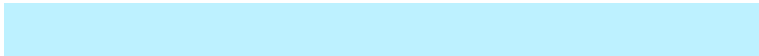
36.2128, 0.3798, 0.4273

Sweetspot

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



36.2141, 0.2115, 0.2711



81.0196, 0.2731, 0.3140



48.8120, 0.2916, 0.5543



16.8752, 0.2681, 0.3117



0.0000, 0.0000, 0.0000



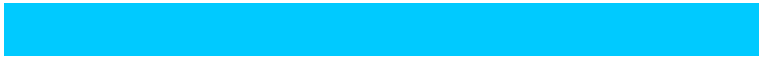
21.4041, 0.3127, 0.3290

Same Dimension

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



36.2141, 0.2115, 0.2711



49.3946, 0.2053, 0.2591



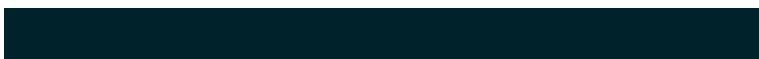
11.8818, 0.1729, 0.1277



13.6479, 0.2982, 0.3240



20.3310, 0.2058, 0.2610



1.3392, 0.2095, 0.2741

Inverse Universe

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



18.4500, 0.3709, 0.1897



25.5176, 0.3832, 0.1885



39.3048, 0.4672, 0.4541



12.5863, 0.3169, 0.3107



10.3973, 0.3814, 0.1875



0.6385, 0.3690, 0.1806

Previews

White Background



This preview shows how the Yxy color 36.2128, 0.2115, 0.2711 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 36.2128, 0.2115, 0.2711 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

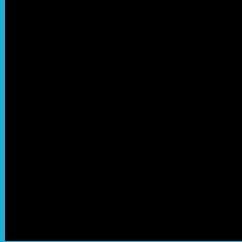
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 36.2128, 0.2115, 0.2711

Background



This preview shows how black text looks on a background with the Yxy color 36.2128, 0.2115, 0.2711.



This preview shows how white text looks on a background with the Yxy color 36.2128, 0.2115, 0.2711.

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

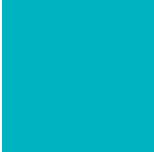
36.2128, 0.2115, 0.2711

Protanopia

35.6399, 0.2707, 0.2693

Deuteranopia

35.8780, 0.2552, 0.2493



Tritanopia

36.0905, 0.2184, 0.3061

Trichromacy



Original Color

36.2128, 0.2115, 0.2711



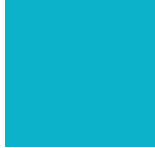
Protanomaly

34.5546, 0.2390, 0.2683



Deuteranomaly

34.8631, 0.2309, 0.2540



Tritanomaly

36.1360, 0.2154, 0.2924

Monochromacy



Original Color

36.2128, 0.2115, 0.2711



Achromatopsia

25.0158, 0.3127, 0.3290



Achromatomaly

27.5025, 0.2550, 0.3049

CSS Examples

Text

The CSS property to change the color of the text to Yxy 36.2128, 0.2115, 0.2711 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, 176, 214)` looks like.

```
.text, #text, p{  
    color:rgb(32, 176, 214)  
}
```

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, 176, 214) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(32, 176, 214) }
```

Border

The CSS property to change the border of an element to Yxy 36.2128, 0.2115, 0.2711 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, 176, 214) }
```

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

```
.border{ border-color:rgb(32, 176, 214) }
```

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

Here you see how a box with a 4 pixel rgb(32, 176, 214) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(32, 176, 214); -webkit-box-  
shadow:4px 4px 4px 4px rgb(32, 176, 214);  
box-shadow:4px 4px 4px 4px rgb(32, 176,  
214) }
```


Background

The CSS property to change the background color of an element to Yxy 36.2128, 0.2115, 0.2711 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(32, 176, 214) }
```

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

```
.background{ background-color: rgb(32, 176,  
214) }
```

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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