

# Converting Colors

$Yxy(37.6713, 0.2534, 0.3427)$

Have a look what the booklet for  
Yxy(37.6713, 0.2534, 0.3427)  
contains.

<b>Yxy(37.7564, 0.2536, 0.3433)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**$\text{Yxy}(37.7564, 0.2536, 0.3433)$**

# Conversions

## Conversions Part 1

Format	Color
Hex	5AB4AB
RGB	90, 180, 171
RGB Percent	35%, 71%, 67%
CMY	0.6468, 0.2941, 0.3295
CMYK	0.50, 0.00, 0.05, 0.29
HSL	174°, 37%, 53%
HSV	174°, 50%, 71%
XYZ	27.8911, 37.7564, 44.3333
YIQ	152.0640, -50.7510, -21.8790

# Conversions

## Conversions Part 2

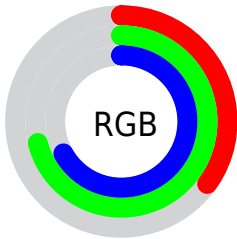
Format	Color
<b>RYB</b>	90, 137, 180
Decimal	5944491
CIELab	67.84, -29.12, -3.68
CIElCh	68, 29.353, 187.208
Yxy	37.7564, 0.2536, 0.3433
Android (android.graphics.Color)	4284134571 (0xFF5AB4AB)
YUV	152.0640, 9.3354, -54.4301
Hunter-Lab	61.4462, -26.5078, 0.2348

# Details

The Yxy color **37.7564, 0.2536, 0.3433** is a dark color, and the websafe version is hex **66CCCC**. A complement of this color would be **17.9294, 0.4367, 0.3165**, and the grayscale version is **31.4108, 0.3127, 0.3290**.

A 20% lighter version of the original color is **71.5929, 0.2646, 0.3409**, and **16.7437, 0.2359, 0.3474** is the 20% darker color. If you saturate the color by 10%, you get **36.8928, 0.2459, 0.3466**, and if you desaturate by 10%, it is **38.8425, 0.2630, 0.3401**.

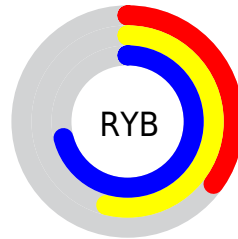
# Distribution



Red (35%)

Green (71%)

Blue (67%)



Red (35%)

Yellow (54%)

Blue (71%)

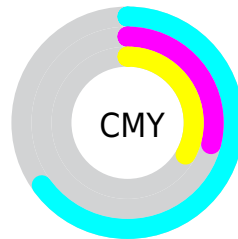


Cyan (50%)

Magenta (0%)

Yellow (5%)

Black (29%)



Cyan (65%)

Magenta (29%)


Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 37.7564, 0.2536, 0.3433 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 37.7564, 0.2536, 0.3433 by changing the saturation by 10% instead.



 37.7564, 0.2536,  
0.3433


 37.7564, 0.2536,  
0.3433


336.5738, 0.2838,  
0.3363


 25.7937, 0.2459,  
0.3450


 71.7346, 0.2647,  
0.3408


 16.6694, 0.2358,  
0.3471


 94.5189, 0.2689,  
0.3399

 9.9990, 0.2223,  
0.3497


 121.6791, 0.2723,  
0.3391

 5.3983, 0.2032,  
0.3532

 153.5998, 0.2753,  
0.3384

 2.4828, 0.1743,  
0.3577

190.6651, 0.2779,  
0.3377

 0.8680, 0.0518,  
0.3937

233.2597, 0.2801,

 0.0000, 0.0000,

0.3372

0.0000

281.7678, 0.2821,  
0.3367

■ 37.7564, 0.2536,  
0.3433

■ 37.7564, 0.2536,  
0.3433

■ 36.8928, 0.2459,  
0.3466

■ 38.8425, 0.2630,  
0.3401

■ 36.2311, 0.2401,  
0.3500

■ 40.1612, 0.2738,  
0.3370

■ 35.7548, 0.2362,  
0.3535


■ 41.7270, 0.2859,  
0.3341

■ 35.4421, 0.2341,  
0.3569

■ 43.5522, 0.2990,  
0.3314

■ 35.2487, 0.2334,  
0.3602

■ 45.6482, 0.3128,  
0.3290

 35.2480, 0.2334,  
0.3603

 48.0258, 0.3269,  
0.3268

 50.6950, 0.3413,  
0.3248

 53.6656, 0.3556,  
0.3231

 56.9467, 0.3697,  
0.3215

# Harmonies

## Analogous

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



37.7564, 0.2890, 0.3840



37.7564, 0.2536, 0.3433



37.7564, 0.2343, 0.3013

# Triad

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



37.7564, 0.2536, 0.3433



37.7564, 0.2885, 0.2628



37.7564, 0.3969, 0.3806

# Complementary

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



37.7564, 0.2536, 0.3433



17.9294, 0.4367, 0.3165

# 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.



37.7564, 0.3980, 0.3470



37.7564, 0.2536, 0.3433



37.7564, 0.3328, 0.2819

# Square

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



37.7564, 0.2536, 0.3433



37.7564, 0.2533, 0.2585



37.7564, 0.3740, 0.3118



37.7564, 0.3722, 0.4039



# Rectangle

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



37.7564, 0.2536, 0.3433



37.7564, 0.2321, 0.2795



37.7564, 0.3740, 0.3118



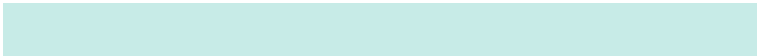
37.7564, 0.4002, 0.3700

# Sweetspot

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



37.7579, 0.2536, 0.3433



77.1596, 0.2920, 0.3328



36.1221, 0.3130, 0.4814



16.5315, 0.2893, 0.3334



91.1408, 0.3127, 0.3290



17.8868, 0.3127, 0.3290



# Same Dimension

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



37.7579, 0.2536, 0.3433



66.7519, 0.2452, 0.3470



25.8837, 0.2373, 0.2709



9.6166, 0.2999, 0.3313



24.6074, 0.2333, 0.3598



0.7785, 0.2307, 0.3504



# Inverse Universe

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



17.9294, 0.4367, 0.3165



26.6530, 0.4823, 0.3149



24.9936, 0.4236, 0.3788



8.5187, 0.3272, 0.3267



6.8078, 0.6263, 0.3224



0.2187, 0.5781, 0.2959



# Previews

## White Background



This preview shows how the Yxy color 37.7564, 0.2536, 0.3433 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 37.7564, 0.2536, 0.3433 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

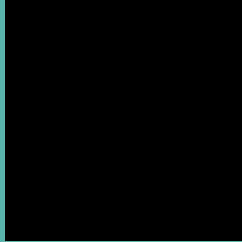
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

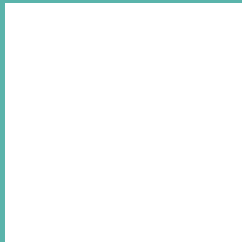
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 37.7564, 0.2536, 0.3433**

## **Background**



This preview shows how black text looks on a background with the Yxy color 37.7564, 0.2536, 0.3433.

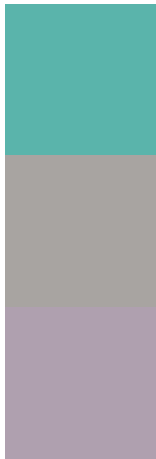


This preview shows how white text looks on a background with the Yxy color 37.7564, 0.2536, 0.3433.

# 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

37.7564, 0.2536, 0.3433

### Protanopia

37.4490, 0.3191, 0.3333

### Deuteranopia

37.3507, 0.3137, 0.3084



## Tritanopia

37.7473, 0.2448, 0.3074

# Trichromacy



**Original Color**

37.7564, 0.2536, 0.3433

**Protanomaly**

37.0415, 0.2905, 0.3365

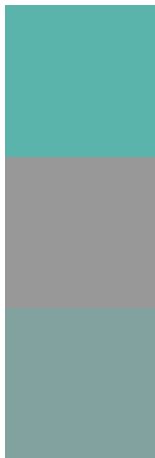
**Deuteranomaly**

36.6227, 0.2867, 0.3186

**Tritanomaly**

37.6812, 0.2475, 0.3195

# Monochromacy



**Original Color**

37.7564, 0.2536, 0.3433

**Achromatopsia**

31.3989, 0.3127, 0.3290

**Achromatomaly**

33.0110, 0.2854, 0.3337

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 37.7564, 0.2536, 0.3433 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(90, 180, 171)` looks like.

```
.text, #text, p{  
    color:rgb(90, 180, 171)  
}
```

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(90, 180, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(90, 180, 171) }
```

## Border

The CSS property to change the border of an element to Yxy 37.7564, 0.2536, 0.3433 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(90, 180, 171) }
```

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

```
.border{ border-color:rgb(90, 180, 171) }
```

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

Here you see how a box with a 4 pixel `rgb(90, 180, 171)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(90, 180, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(90, 180, 171);  
box-shadow:4px 4px 4px 4px rgb(90, 180,  
171) }
```



# Background

The CSS property to change the background color of an element to Yxy 37.7564, 0.2536, 0.3433 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(90, 180, 171) }
```

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

```
.background{ background-color: rgb(90, 180,  
171) }
```

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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