

Converting Colors

CIELCh(42, 69.358, 176.188)

Have a look what the booklet for
CIELCh(42, 69.358, 176.188)
contains.

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Color

CIELCh(45, 38.565, 165.801)

Conversions

Conversions Part 1

Format	Color
Hex	007A5A
RGB	0, 122, 90
RGB Percent	0%, 48%, 35%
CMY	1.0000, 0.5232, 0.6486
CMYK	1.00, 0.00, 0.26, 0.52
HSL	164°, 100%, 24%
HSV	164°, 100%, 48%
XYZ	8.7242, 14.5417, 11.9338
YIQ	81.8740, -62.4400, -35.8160

Conversions

Conversions Part 2

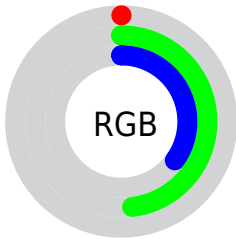
Format	Color
RYB	0, 70, 122
Decimal	31322
CIELab	45.00, -37.39, 9.46
CIELCh	45, 38.565, 165.801
Yxy	14.5417, 0.2478, 0.4131
Android (android.graphics.Color)	4278221402 (0xFF007A5A)
YUV	81.8740, 4.0061, -71.8035
Hunter-Lab	38.1336, -25.8968, 8.1388

Details

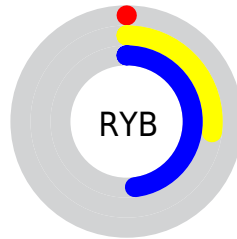
The CIELCh color **45, 38.565, 165.801** is a dark color, and the websafe version is hex **006633**. A complement of this color would be **24, 50.966, 22.097**, and the grayscale version is **35, 0.005, 296.813**.

A 20% lighter version of the original color is **65, 38.446, 165.897**, and **26, 30.195, 158.096** is the 20% darker color. If you saturate the color by 10%, you get **45, 38.498, 165.752**, and if you desaturate by 10%, it is **45, 36.493, 167.545**.

Distribution



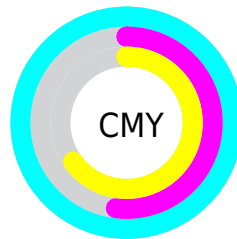
- Red (0%)
- Green (48%)
- Blue (35%)



- Red (0%)
- Yellow (27%)
- Blue (48%)



- Cyan (100%)
- Magenta (0%)
- Yellow (26%)
- Black (52%)





- Cyan (100%)
- Magenta (52%)
- Yellow (65%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 38.565, 165.801 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 CIELCh color 45, 38.565, 165.801 by changing the saturation by 10% instead.


 45, 38.565,
165.801


 45, 38.565,
165.801


 100, 38.565,
165.801


 35, 38.565,
165.801

 65, 38.565,
165.801


 25, 38.565,
165.801

 75, 38.565,
165.801

 15, 38.565,
165.801

 85, 38.565,
165.801

 5, 38.565, 165.801

 95, 38.565,
165.801

 0, 38.565, 165.801

 45, 38.565,

 45, 38.565,

165.801

165.801

■ 45, 38.498,
165.752

■ 45, 36.493,
167.545

■ 45, 34.170,
169.288

■ 46, 31.314,
170.859

■ 46, 27.934,
172.274

■ 47, 24.070,
173.556

■ 47, 19.785,
174.724

■ 48, 15.157,
175.801

■ 49, 10.267,
176.805

Harmonies

Complementary

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



45, 38.565, 165.801



24, 50.966, 22.097

Rectangle

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



45, 38.565, 165.801



45, 38.565, 215.801



45, 38.565, 345.801



45, 38.565, 35.801

Sweetspot

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



45, 38.498, 165.752



62, 18.766, 175.724



44, 66.812, 133.284



31, 12.648, 175.369



83, 0.010, 296.813



34, 0.005, 296.813

Same Dimension

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



45, 38.498, 165.752



58, 46.960, 165.205



36, 25.820, 240.993



25, 2.941, 177.857



46, 39.296, 165.689



89, 67.314, 164.497

Inverse Universe

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



24, 50.966, 22.097



33, 62.244, 23.628



27, 54.807, 44.655



24, 3.026, 359.332



25, 52.028, 22.273



53, 89.455, 25.578

Previews

White Background



This preview shows how the CIELCh color 45, 38.565, 165.801 looks on a white 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 × Fail

Black Background



This preview shows how the CIELCh color 45, 38.565, 165.801 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 38.565, 165.801

Background



This preview shows how black text looks on a background with the CIELCh color 45, 38.565, 165.801.



This preview shows how white text looks on a background with the CIELCh color 45, 38.565, 165.801.

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


45, 38.565, 165.801

Protanopia

45, 14.564, 95.715

Deuteranopia

45, 9.599, 49.784



Tritanopia
45, 23.479, 210.411

Trichromacy



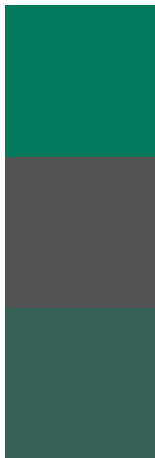
Original Color
45, 38.565, 165.801

Protanomaly
44, 22.999, 152.445

Deuteranomaly
43, 16.578, 159.518

Tritanomaly
45, 27.700, 188.920

Monochromacy



Original Color
45, 38.565, 165.801

Achromatopsia
35, 0.005, 296.813

Achromatomaly
37, 18.268, 175.175

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 38.565, 165.801 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(0, 122, 90)` looks like.

```
.text, #text, p{  
    color:rgb(0, 122, 90)  
}
```

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(0, 122, 90) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 122, 90) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 38.565, 165.801 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(0, 122, 90) }
```

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

```
.border{ border-color:rgb(0, 122, 90) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 122, 90)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 122, 90); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 122, 90);  
box-shadow:4px 4px 4px 4px rgb(0, 122, 90)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 45, 38.565, 165.801 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 122, 90) }
```

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

```
.background{ background-color: rgb(0, 122,  
90) }
```

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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