

Converting Colors

CIELCh(45, 22.854, 189.343)

Have a look what the booklet for
CIELCh(45, 22.854, 189.343)
contains.

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Color

CIELCh(45, 22.945, 189.344)

Conversions

Conversions Part 1

Format	Color
Hex	317570
RGB	49, 117, 112
RGB Percent	19%, 46%, 44%
CMY	0.8079, 0.5412, 0.5608
CMYK	0.58, 0.00, 0.04, 0.54
HSL	176°, 41%, 33%
HSV	176°, 58%, 46%
XYZ	10.5497, 14.5417, 17.5763
YIQ	96.0980, -38.9230, -15.9710

Conversions

Conversions Part 2

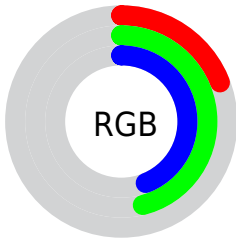
Format	Color
RYB	49, 84, 117
Decimal	3241328
CIELab	45.00, -22.64, -3.73
CIELCh	45, 22.945, 189.344
Yxy	14.5417, 0.2473, 0.3408
Android (android.graphics.Color)	4281431408 (0xFF317570)
YUV	96.0980, 7.8397, -41.3049
Hunter-Lab	38.1336, -17.3518, -0.6341

Details

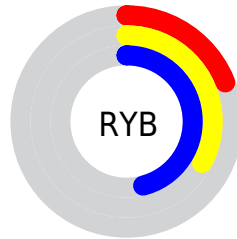
The CIELCh color **45, 22.945, 189.344** is a dark color, and the websafe version is hex **006666**. A complement of this color would be **30, 32.541, 21.050**, and the grayscale version is **41, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 22.569, 190.367**, and **25, 20.250, 188.658** is the 20% darker color. If you saturate the color by 10%, you get **45, 25.447, 188.629**, and if you desaturate by 10%, it is **45, 19.922, 190.039**.

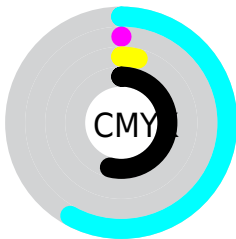
Distribution



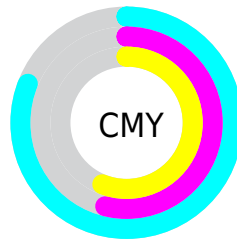
- Red (19%)
- Green (46%)
- Blue (44%)



- Red (19%)
- Yellow (33%)
- Blue (46%)



- Cyan (58%)
- Magenta (0%)
- Yellow (4%)
- Black (54%)



- Cyan (81%)
- Magenta (54%)
- Yellow (56%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 22.945, 189.344 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, 22.945, 189.344 by changing the saturation by 10% instead.


 45, 22.945,
189.344


 45, 22.945,
189.344


 100, 22.945,
189.344

 35, 22.945,
189.344

 65, 22.945,
189.344


 25, 22.945,
189.344

 75, 22.945,
189.344

 15, 22.945,
189.344

 85, 22.945,
189.344

 5, 22.945, 189.344

 95, 22.945,
189.344

 0, 22.945, 189.344

 45, 22.945,

 45, 22.945,

189.344

■ 45, 25.447,
188.629

■ 44, 27.400,
187.887

■ 44, 28.803,
187.104

■ 44, 29.806,
186.290

■ 44, 29.991,
186.142

189.344

■ 45, 19.922,
190.039

■ 46, 16.429,
190.728

■ 47, 12.531,
191.417

■ 48, 8.297, 192.114

■ 48, 3.800, 192.849

■ 49, 0.894, 13.030

■ 51, 5.727, 14.060

■ 52, 10.648, 14.773

■ 53, 15.615, 15.464

Harmonies

Complementary

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



45, 22.945, 189.344



30, 32.541, 21.050

Rectangle

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



45, 22.945, 189.344



45, 22.945, 239.344



45, 22.945, 9.344



45, 22.945, 59.344

Sweetspot

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



45, 22.945, 189.342



61, 9.712, 192.162



44, 46.570, 138.156



31, 6.434, 192.057



82, 0.010, 296.813



33, 0.005, 296.813

Same Dimension

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



45, 22.945, 189.342



57, 31.856, 188.360



36, 20.949, 256.287



24, 2.634, 192.777



46, 30.989, 186.096



89, 52.753, 185.565

Inverse Universe

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



30, 32.541, 21.050



36, 49.494, 24.909



37, 27.036, 60.229



23, 2.760, 13.906



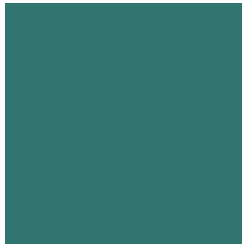
24, 57.036, 35.025



52, 100.013, 37.797

Previews

White Background



This preview shows how the CIELCh color 45, 22.945, 189.344 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, 22.945, 189.344 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

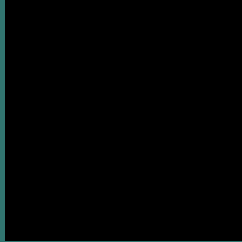
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 22.945, 189.344

Background



This preview shows how black text looks on a background with the CIELCh color 45, 22.945, 189.344.



This preview shows how white text looks on a background with the CIELCh color 45, 22.945, 189.344.

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, 22.945, 189.344

Protanopia

45, 1.239, 19.279

Deuteranopia

45, 8.072, 317.701



Tritanopia
45, 20.152, 213.007

Trichromacy



Original Color
45, 22.945, 189.344

Protanomaly
44, 8.613, 194.424

Deuteranomaly
44, 8.007, 225.453

Tritanomaly
45, 20.878, 203.823

Monochromacy



Original Color
45, 22.945, 189.344

Achromatopsia
41, 0.006, 296.813

Achromatomaly
42, 9.867, 191.159

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 22.945, 189.344 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(49, 117, 112)` looks like.

```
.text, #text, p{  
    color:rgb(49, 117, 112)  
}
```

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(49, 117, 112) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 117, 112) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 22.945, 189.344 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(49, 117, 112) }
```

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

```
.border{ border-color:rgb(49, 117, 112) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 117, 112)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 117, 112); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 117, 112);  
box-shadow:4px 4px 4px 4px rgb(49, 117,  
112) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 22.945, 189.344 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 117, 112) }
```

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

```
.background{ background-color: rgb(49, 117,  
112) }
```

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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