

Converting Colors

CIELCh(45, 20.039, 157.169)

Have a look what the booklet for
CIELCh(45, 20.039, 157.169)
contains.

CIELCh(45, 20.198, 156.836)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(45, 20.198, 156.836)

Conversions

Conversions Part 1

Format	Color
Hex	4D735D
RGB	77, 115, 93
RGB Percent	30%, 45%, 36%
CMY	0.6992, 0.5502, 0.6365
CMYK	0.33, 0.00, 0.19, 0.55
HSL	145°, 20%, 38%
HSV	145°, 33%, 45%
XYZ	11.0950, 14.5417, 12.5093
YIQ	101.1300, -15.5860, -14.8980

Conversions

Conversions Part 2

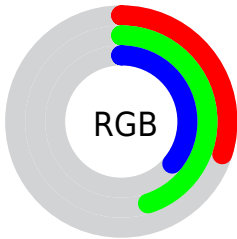
Format	Color
RYB	77, 104, 115
Decimal	5075805
CIELab	45.00, -18.57, 7.95
CIELCh	45, 20.198, 156.836
Yxy	14.5417, 0.2909, 0.3812
Android (android.graphics.Color)	4283265885 (0xFF4D735D)
YUV	101.1300, -4.0081, -21.1620
Hunter-Lab	38.1336, -14.7992, 7.2441

Details

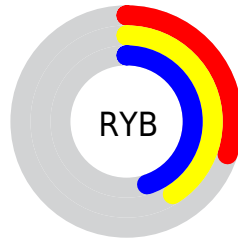
The CIELCh color $45, 20.198, 156.836$ is a dark color, and the websafe version is hex 336666 . A complement of this color would be $37, 20.709, 342.314$, and the grayscale version is $43, 0.006, 296.813$.

A 20% lighter version of the original color is $65, 20.269, 156.677$, and $25, 20.494, 156.539$ is the 20% darker color. If you saturate the color by 10%, you get $44, 26.068, 155.742$, and if you desaturate by 10%, it is $46, 14.160, 157.805$.

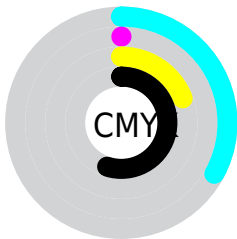
Distribution



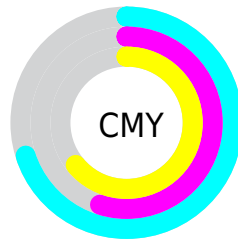
- Red (30%)
- Green (45%)
- Blue (36%)



- Red (30%)
- Yellow (41%)
- Blue (45%)



- Cyan (33%)
- Magenta (0%)
- Yellow (19%)
- Black (55%)





- Cyan (70%)
- Magenta (55%)
- Yellow (64%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 20.198, 156.836 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, 20.198, 156.836 by changing the saturation by 10% instead.


 45, 20.198,
156.836


 45, 20.198,
156.836


 100, 20.198,
156.836


 35, 20.198,
156.836

 65, 20.198,
156.836


 25, 20.198,
156.836

 75, 20.198,
156.836

 15, 20.198,
156.836

 85, 20.198,
156.836

 5, 20.198, 156.836

 95, 20.198,
156.836

 0, 20.198, 156.836

 45, 20.198,

 45, 20.198,

156.836

156.836

■ 44, 26.068,
155.742

■ 46, 14.160,
157.805

■ 44, 31.673,
154.504

■ 47, 8.037, 158.676

■ 43, 36.916,
153.100

■ 48, 1.903, 159.544

■ 49, 4.183, 340.043

■ 43, 41.709,
151.516

■ 50, 10.177,
340.705

■ 42, 45.985,
149.743

■ 52, 16.046,
341.288

■ 42, 49.720,
147.803

■ 53, 21.769,
341.819

■ 42, 52.135,
146.551

■ 55, 27.334,
342.309

■ 56, 32.733,

Harmonies

Complementary

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



45, 20.198, 156.836



37, 20.709, 342.314

Rectangle

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



45, 20.198, 156.836



45, 20.198, 206.836



45, 20.198, 336.836



45, 20.198, 26.836

Sweetspot

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



45, 20.199, 156.835



60, 7.538, 158.914



46, 23.237, 124.540



31, 5.111, 158.825



81, 0.010, 296.813



31, 0.005, 296.813

Same Dimension

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



45, 20.199, 156.835



57, 29.850, 155.985



46, 14.349, 190.198



23, 3.379, 159.018



44, 53.932, 146.436



86, 94.845, 145.085

Inverse Universe

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



37, 20.709, 342.314



45, 30.727, 343.094



37, 17.202, 15.728



22, 3.407, 340.247



25, 49.880, 353.387



54, 84.403, 355.426

Previews

White Background



This preview shows how the CIELCh color 45, 20.198, 156.836 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, 20.198, 156.836 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

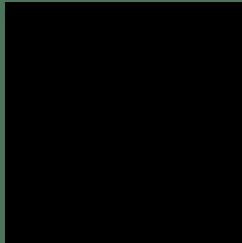
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 20.198, 156.836

Background



This preview shows how black text looks on a background with the CIELCh color 45, 20.198, 156.836.



This preview shows how white text looks on a background with the CIELCh color 45, 20.198, 156.836.

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, 20.198, 156.836

Protanopia

45, 11.002, 94.788

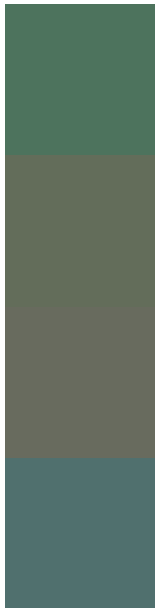
Deuteranopia

45, 8.890, 47.995



Tritanopia
45, 11.709, 225.850

Trichromacy



Original Color
45, 20.198, 156.836

Protanomaly
45, 12.076, 129.257

Deuteranomaly
45, 7.838, 118.443

Tritanomaly
45, 12.225, 192.378

Monochromacy



Original Color
45, 20.198, 156.836

Achromatopsia
43, 0.006, 296.813

Achromatomaly
43, 7.539, 159.030

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 20.198, 156.836 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(77, 115, 93)` looks like.

```
.text, #text, p{  
    color:rgb(77, 115, 93)  
}
```

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(77, 115, 93) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 115, 93) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 20.198, 156.836 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(77, 115, 93) }
```

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

```
.border{ border-color:rgb(77, 115, 93) }
```

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

Here you see how a box with a 4 pixel rgb(77, 115, 93) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 115, 93); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 115, 93);  
box-shadow:4px 4px 4px 4px rgb(77, 115,  
93) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 20.198, 156.836 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 115, 93) }
```

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

```
.background{ background-color: rgb(77, 115,  
93) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor