

Converting Colors

CIELCh(45, 21.365, 149.450)

Have a look what the booklet for
CIELCh(45, 21.365, 149.450)
contains.

CIELCh(45, 20.912, 149.625)	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, 20.912, 149.625)

Conversions

Conversions Part 1

Format	Color
Hex	507258
RGB	80, 114, 88
RGB Percent	31%, 45%, 35%
CMY	0.6850, 0.5516, 0.6536
CMYK	0.30, 0.00, 0.23, 0.55
HSL	134°, 17%, 38%
HSV	134°, 30%, 45%
XYZ	11.1671, 14.5417, 11.5217
YIQ	100.8700, -11.9180, -15.2940

Conversions

Conversions Part 2

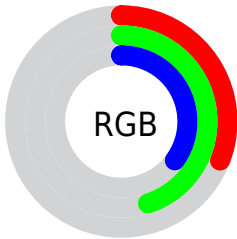
Format	Color
R_{YB}	80, 108, 114
Decimal	5272152
CIE _{Lab}	45.00, -18.04, 10.57
CIE _{LCh}	45, 20.912, 149.625
Yxy	14.5417, 0.2999, 0.3906
Android (android.graphics.Color)	4283462232 (0xFF507258)
YUV	100.8700, -6.3449, -18.3030
Hunter-Lab	38.1336, -14.4617, 8.7796

Details

The CIELCh color **45, 20.912, 149.625** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **39, 21.041, 333.664**, and the grayscale version is **43, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 20.893, 149.790**, and **25, 21.451, 149.303** is the 20% darker color. If you saturate the color by 10%, you get **44, 27.818, 148.667**, and if you desaturate by 10%, it is **46, 13.883, 150.461**.

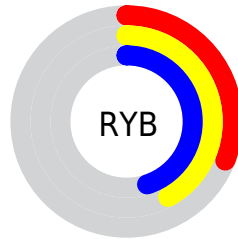
Distribution



Red (31%)

Green (45%)

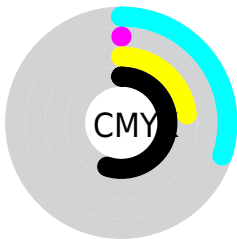
Blue (35%)



Red (31%)

Yellow (42%)

Blue (45%)

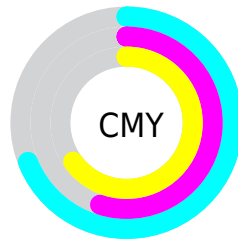


Cyan (30%)

Magenta (0%)

Yellow (23%)

Black (55%)



Cyan (69%)


Magenta (55%)


Yellow (65%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 20.912, 149.625 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, 20.912, 149.625 by changing the saturation by 10% instead.


 45, 20.912,
149.625


 45, 20.912,
149.625


 100, 20.912,
149.625


 35, 20.912,
149.625

 65, 20.912,
149.625


 25, 20.912,
149.625

 75, 20.912,
149.625

 15, 20.912,
149.625

 85, 20.912,
149.625

 5, 20.912, 149.625

 95, 20.912,
149.625

 0, 20.912, 149.625

 45, 20.912,

 45, 20.912,

149.625

149.625

■ 44, 27.818,
148.667

■ 46, 13.883,
150.461

■ 43, 34.482,
147.570

■ 47, 6.826, 151.200

■ 43, 40.778,
146.321

■ 48, 0.181, 330.633

■ 49, 7.080, 332.325

■ 42, 46.570,
144.917

■ 51, 13.830,
332.828

■ 42, 51.731,
143.373

■ 52, 20.401,
333.267

■ 42, 56.149,
141.727

■ 54, 26.780,
333.656

■ 42, 59.898,
140.222

■ 55, 32.957,
334.006

■ 42, 59.987,
140.190

■ 57, 38.932,

Harmonies

Complementary

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



45, 20.912, 149.625



39, 21.041, 333.664

Rectangle

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



45, 20.912, 149.625



45, 20.912, 199.625



45, 20.912, 329.625



45, 20.912, 19.625

Sweetspot

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



45, 20.913, 149.625



60, 7.780, 151.237



47, 20.158, 117.446



31, 5.375, 151.155



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, 20.913, 149.625



57, 31.165, 148.952



45, 14.338, 175.575



23, 3.876, 151.254



43, 62.183, 140.089



86, 108.865, 139.034

Inverse Universe

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



39, 21.041, 333.664



47, 31.352, 334.159



38, 15.749, 1.416



22, 3.890, 332.298



26, 55.537, 339.811



56, 93.975, 340.652

Previews

White Background



This preview shows how the CIELCh color 45, 20.912, 149.625 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, 20.912, 149.625 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

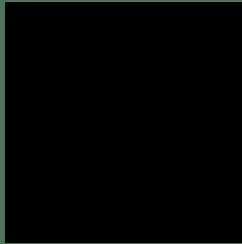
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

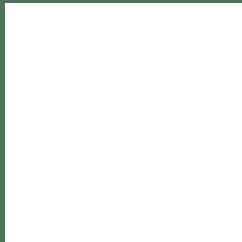
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 45, 20.912, 149.625

Background



This preview shows how black text looks on a background with the CIELCh color 45, 20.912, 149.625.



This preview shows how white text looks on a background with the CIELCh color 45, 20.912, 149.625.

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, 20.912, 149.625

Protanopia

45, 13.413, 94.878

Deuteranopia

45, 11.046, 56.284



Tritanopia
45, 10.252, 230.350

Trichromacy



Original Color
45, 20.912, 149.625

Protanomaly
45, 14.055, 122.519

Deuteranomaly
44, 9.514, 106.197

Tritanomaly
45, 11.149, 185.718

Monochromacy



Original Color
45, 20.912, 149.625

Achromatopsia
43, 0.006, 296.813

Achromatomaly
43, 8.106, 150.872

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 20.912, 149.625 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(80, 114, 88)` looks like.

```
.text, #text, p{  
    color:rgb(80, 114, 88)  
}
```

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(80, 114, 88) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 114, 88) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 20.912, 149.625 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(80, 114, 88) }
```

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

```
.border{ border-color:rgb(80, 114, 88) }
```

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

Here you see how a box with a 4 pixel `rgb(80, 114, 88)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 114, 88); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 114, 88);  
box-shadow:4px 4px 4px 4px rgb(80, 114,  
88) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 20.912, 149.625 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(80, 114, 88) }
```

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

```
.background{ background-color: rgb(80, 114,  
88) }
```

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