

Converting Colors

CIELCh(45, 13.210, 41.814)

Have a look what the booklet for
CIELCh(45, 13.210, 41.814) contains.

CIELCh(45, 13.341, 41.488)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(45, 13.341, 41.488)

Conversions

Conversions Part 1

Format	Color
Hex	80645C
RGB	128, 100, 92
RGB Percent	50%, 39%, 36%
CMY	0.4971, 0.6070, 0.6383
CMYK	0.00, 0.22, 0.28, 0.50
HSL	13°, 16%, 43%
HSV	13°, 28%, 50%
XYZ	15.4581, 14.5417, 12.1679
YIQ	107.4600, 19.2560, 3.4480

Conversions

Conversions Part 2

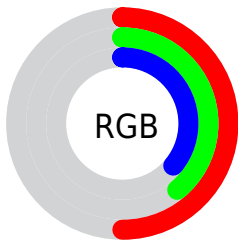
Format	Color
R_{YB}	128, 102, 92
Decimal	8414300
CIE _{Lab}	45.00, 9.99, 8.84
CIE _{LCh}	45, 13.341, 41.488
Yxy	14.5417, 0.3666, 0.3449
Android (android.graphics.Color)	4286604380 (0xFF80645C)
YUV	107.4600, -7.6218, 18.0136
Hunter-Lab	38.1336, 5.6243, 7.7749

Details

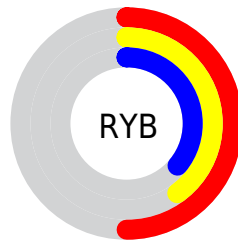
The CIELCh color $45, 13.341, 41.488$ is a dark color, and the websafe version is hex 996666 . A complement of this color would be $49, 11.137, 223.599$, and the grayscale version is $46, 0.006, 296.813$.

A 20% lighter version of the original color is $65, 13.191, 42.461$, and $25, 13.510, 41.173$ is the 20% darker color. If you saturate the color by 10%, you get $42, 18.827, 41.517$, and if you desaturate by 10%, it is $48, 8.256, 41.596$.

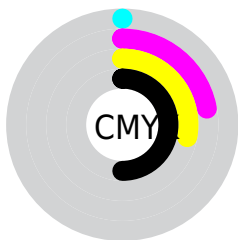
Distribution



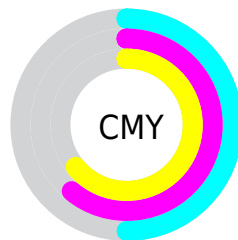
- Red (50%)
- Green (39%)
- Blue (36%)



- Red (50%)
- Yellow (40%)
- Blue (36%)



- Cyan (0%)
- Magenta (22%)
- Yellow (28%)
- Black (50%)



- Cyan (50%)
- Magenta (61%)
- Yellow (64%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 13.341, 41.488 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, 13.341, 41.488 by changing the saturation by 10% instead.

■ 45, 13.341, 41.488

■ 45, 13.341, 41.488

■ 100, 13.341,
41.488

■ 35, 13.341, 41.488

■ 65, 13.341, 41.488

■ 25, 13.341, 41.488

■ 75, 13.341, 41.488

■ 15, 13.341, 41.488

■ 85, 13.341, 41.488

■ 5, 13.341, 41.488

■ 95, 13.341, 41.488

■ 0, 13.341, 41.488

■ 45, 13.341, 41.488

■ 45, 13.341, 41.488

■ 42, 18.827, 41.517

■ 48, 8.256, 41.596

■ 39, 24.724, 41.694

■ 51, 3.549, 41.753

■ 37, 31.013, 42.055

■ 54, 0.811, 222.635

■ 34, 37.625, 42.605

■ 57, 4.860, 222.591

■ 32, 44.393, 43.293

■ 61, 8.632, 222.949

■ 30, 50.945, 43.933

■ 64, 12.158,
223.356

■ 28, 56.625, 44.235

■ 67, 15.468,
223.786

■ 28, 57.636, 44.334

■ 70, 18.588,
224.227

■ 74, 21.541,
224.673

Harmonies

Complementary

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



45, 13.341, 41.488



49, 11.137, 223.599

Rectangle

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



45, 13.341, 41.488



45, 13.341, 91.488



45, 13.341, 221.488



45, 13.341, 271.488

Sweetspot

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



45, 13.340, 41.496



65, 4.333, 41.752



44, 22.111, 332.870



34, 3.119, 41.733



85, 0.010, 296.813



36, 0.005, 296.813

Same Dimension

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



45, 13.340, 41.496



55, 20.458, 41.494



50, 15.674, 91.559



25, 2.472, 41.739



28, 57.353, 44.318



0, 0.000, 0.000

Inverse Universe

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



49, 11.137, 223.599



61, 16.249, 224.171



43, 15.824, 278.869



26, 2.345, 222.532



39, 26.524, 238.925



0, 0.000, 0.000

Previews

White Background



This preview shows how the CIELCh color 45, 13.341, 41.488 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 CIE LCh color 45, 13.341, 41.488 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, 13.341, 41.488

Background



This preview shows how black text looks on a background with the CIELCh color 45, 13.341, 41.488.

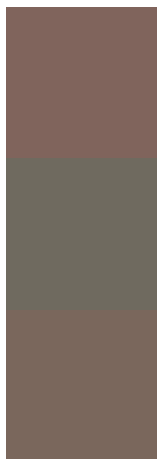


This preview shows how white text looks on a background with the CIELCh color 45, 13.341, 41.488.

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, 13.341, 41.488

Protanopia

45, 6.872, 91.048

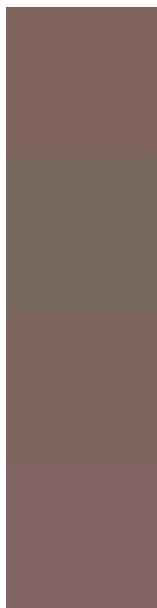
Deuteranopia

45, 10.662, 57.700



Tritanopia
45, 14.279, 2.017

Trichromacy



Original Color
45, 13.341, 41.488

Protanomaly
45, 8.218, 65.940

Deuteranomaly
45, 11.437, 51.440

Tritanomaly
45, 12.922, 15.855

Monochromacy



Original Color
45, 13.341, 41.488

Achromatopsia
46, 0.006, 296.813

Achromatomaly
45, 4.574, 42.672

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 13.341, 41.488 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(128, 100, 92)` looks like.

```
.text, #text, p{  
    color:rgb(128, 100, 92)  
}
```

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(128, 100, 92) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 100, 92) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 13.341, 41.488 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(128, 100, 92) }
```

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

```
.border{ border-color:rgb(128, 100, 92) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 100, 92)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 100, 92); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 100, 92);  
box-shadow:4px 4px 4px 4px rgb(128, 100,  
92) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 13.341, 41.488 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 100, 92) }
```

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

```
.background{ background-color: rgb(128,  
100, 92) }
```

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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