

Converting Colors

CIELCh(45, 2.538, 163.396)

Have a look what the booklet for
CIELCh(45, 2.538, 163.396) contains.

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Color

CIELCh(45, 2.731, 158.393)

Conversions

Conversions Part 1

Format	Color
Hex	676C69
RGB	103, 108, 105
RGB Percent	40%, 42%, 41%
CMY	0.5972, 0.5776, 0.5894
CMYK	0.05, 0.00, 0.03, 0.58
HSL	144°, 2%, 41%
HSV	144°, 5%, 42%
XYZ	13.4249, 14.5417, 15.3836
YIQ	106.1630, -2.0170, -1.9930

Conversions

Conversions Part 2

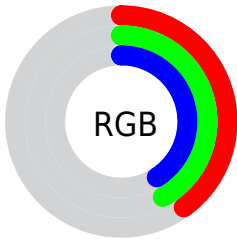
Format	Color
R _Y B	103, 107, 108
Decimal	6777961
CIE Lab	45.00, -2.54, 1.01
CIE LCh	45, 2.731, 158.393
Yxy	14.5417, 0.3097, 0.3354
Android (android.graphics.Color)	4284968041 (0xFF676C69)
YUV	106.1630, -0.5734, -2.7740
Hunter-Lab	38.1336, -3.8930, 2.7752

Details

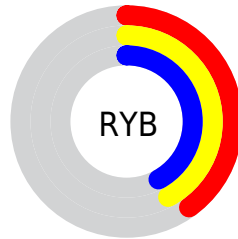
The CIELCh color **45, 2.731, 158.393** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **44, 2.750, 338.866**, and the grayscale version is **45, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 2.544, 158.527**, and **25, 3.016, 158.147** is the 20% darker color. If you saturate the color by 10%, you get **44, 8.654, 157.566**, and if you desaturate by 10%, it is **46, 3.146, 338.908**.

Distribution



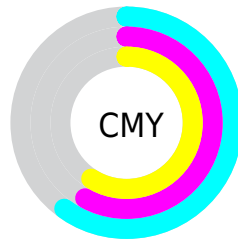
- Red (40%)
- Green (42%)
- Blue (41%)



- Red (40%)
- Yellow (42%)
- Blue (42%)



- Cyan (5%)
- Magenta (0%)
- Yellow (3%)
- Black (58%)



- Cyan (60%)
- Magenta (58%)
- Yellow (59%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 2.731, 158.393 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, 2.731, 158.393 by changing the saturation by 10% instead.

■ 45, 2.731, 158.393

■ 45, 2.731, 158.393

■ 100, 2.731,
158.393

■ 35, 2.731, 158.393

■ 65, 2.731, 158.393

■ 25, 2.731, 158.393

■ 75, 2.731, 158.393

■ 15, 2.731, 158.393

■ 85, 2.731, 158.393

■ 5, 2.731, 158.393

■ 95, 2.731, 158.393

■ 0, 2.731, 158.393

■ 45, 2.731, 158.393

■ 45, 2.731, 158.393

■ 44, 8.654, 157.566

■ 46, 3.146, 338.908

■ 43, 14.562,
156.702

■ 47, 8.938, 339.574

■ 42, 20.384,
155.736

■ 49, 14.611,
340.146

■ 41, 26.039,
154.643

■ 50, 20.144,
340.665

■ 41, 31.433,
153.404

■ 51, 25.524,
341.142

■ 40, 36.473,
152.000

■ 53, 30.744,
341.583

■ 40, 41.076,
150.417

■ 54, 35.803,
341.994

■ 40, 45.176,
148.652

■ 56, 40.703,
342.378

■ 39, 48.779,
146.760

■ 58, 45.447,
342.738

Harmonies

Complementary

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



45, 2.731, 158.393



44, 2.750, 338.866

Rectangle

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



45, 2.731, 158.393



45, 2.731, 208.393



45, 2.731, 338.393



45, 2.731, 28.393

Sweetspot

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



45, 2.732, 158.386



58, 0.725, 158.948



45, 3.080, 124.693



30, 0.415, 158.989



80, 0.010, 296.813



30, 0.005, 296.813

Same Dimension

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



45, 2.732, 158.386



58, 4.391, 158.254



45, 2.062, 189.616



22, 2.307, 158.246



43, 54.066, 145.608



85, 95.882, 144.234

Inverse Universe

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



44, 2.750, 338.866



56, 4.420, 338.996



44, 2.109, 10.001



21, 2.322, 339.004



24, 49.598, 351.556



53, 84.477, 353.495

Previews

White Background



This preview shows how the CIELCh color 45, 2.731, 158.393 looks on a white background.

Color Contrast Check

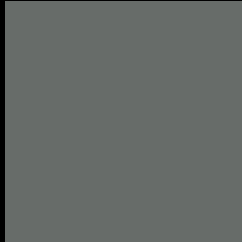
Large Text (above 18pt) WCAG AA ✓ Pass

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, 2.731, 158.393 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

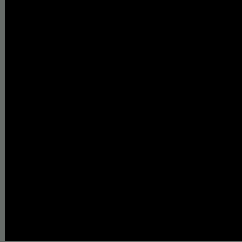
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

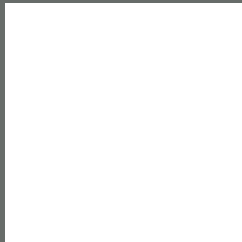
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 45, 2.731, 158.393

Background



This preview shows how black text looks on a background with the CIELCh color 45, 2.731, 158.393.



This preview shows how white text looks on a background with the CIELCh color 45, 2.731, 158.393.

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, 2.731, 158.393

Protanopia

45, 1.711, 63.291

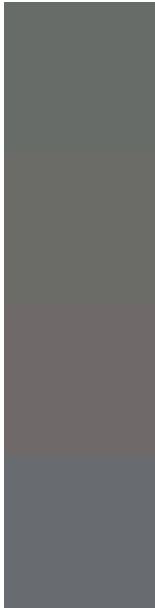
Deuteranopia

45, 6.113, 3.202



Tritanopia
45, 5.418, 282.559

Trichromacy



Original Color

45, 2.731, 158.393

Protanomaly

45, 1.779, 109.903

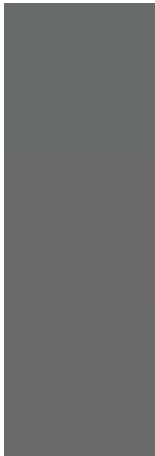
Deuteranomaly

45, 2.966, 8.101

Tritanomaly

45, 2.655, 263.588

Monochromacy



Original Color

45, 2.731, 158.393

Achromatopsia

45, 0.006, 296.813

Achromatomaly

45, 1.015, 163.761

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 2.731, 158.393 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(103, 108, 105)` looks like.

```
.text, #text, p{  
    color:rgb(103, 108, 105)  
}
```

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(103, 108, 105) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 108, 105) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 2.731, 158.393 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(103, 108, 105) }
```

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

```
.border{ border-color:rgb(103, 108, 105) }
```

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

Here you see how a box with a 4 pixel `rgb(103, 108, 105)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 108, 105); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 108, 105);  
box-shadow:4px 4px 4px 4px rgb(103, 108,  
105) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 2.731, 158.393 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 108, 105) }
```

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

```
.background{ background-color: rgb(103,  
108, 105) }
```

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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