

Converting Colors

CIELCh(45, 4.141, 162.050)

Have a look what the booklet for
CIELCh(45, 4.141, 162.050) contains.

CIELCh(45, 4.070, 163.137)	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, 4.070, 163.137)

Conversions

Conversions Part 1

Format	Color
Hex	646C68
RGB	100, 108, 104
RGB Percent	39%, 42%, 41%
CMY	0.6064, 0.5750, 0.5907
CMYK	0.07, 0.00, 0.04, 0.57
HSL	150°, 4%, 41%
HSV	150°, 7%, 43%
XYZ	13.2163, 14.5417, 15.3062
YIQ	105.1520, -3.4840, -2.9400

Conversions

Conversions Part 2

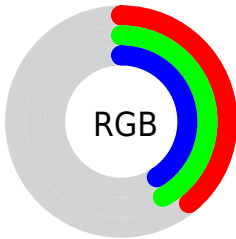
Format	Color
RYB	100, 105, 108
Decimal	6581352
CIELab	45.00, -3.89, 1.18
CIELCh	45, 4.070, 163.137
Yxy	14.5417, 0.3069, 0.3377
Android (android.graphics.Color)	4284771432 (0xFF646C68)
YUV	105.1520, -0.5679, -4.5183
Hunter-Lab	38.1336, -4.8696, 2.8955

Details

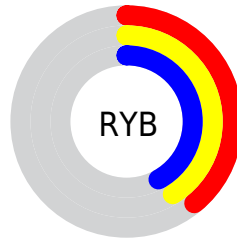
The CIELCh color **45, 4.070, 163.137** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **43, 4.113, 344.156**, and the grayscale version is **45, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 3.793, 163.338**, and **25, 4.489, 162.731** is the 20% darker color. If you saturate the color by 10%, you get **44, 9.585, 162.250**, and if you desaturate by 10%, it is **46, 1.442, 343.656**.

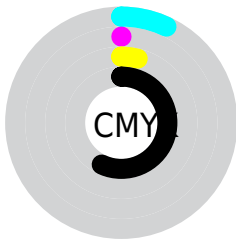
Distribution



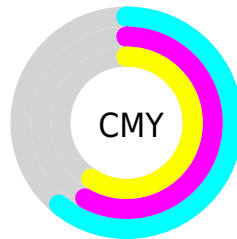
- Red (39%)
- Green (42%)
- Blue (41%)



- Red (39%)
- Yellow (41%)
- Blue (42%)



- Cyan (7%)
- Magenta (0%)
- Yellow (4%)
- Black (57%)



- Cyan (61%)
- Magenta (58%)
- Yellow (59%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 4.070, 163.137 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, 4.070, 163.137 by changing the saturation by 10% instead.

■ 45, 4.070, 163.137

■ 45, 4.070, 163.137

■ 100, 4.070,
163.137

■ 35, 4.070, 163.137

■ 65, 4.070, 163.137

■ 25, 4.070, 163.137

■ 75, 4.070, 163.137

■ 15, 4.070, 163.137

■ 85, 4.070, 163.137

■ 5, 4.070, 163.137

■ 95, 4.070, 163.137

■ 0, 4.070, 163.137

■ 45, 4.070, 163.137

■ 45, 4.070, 163.137

■ 44, 9.585, 162.250

■ 46, 1.442, 343.656

■ 43, 15.041,
161.304

■ 47, 6.907, 344.503

■ 42, 20.368,
160.257

■ 48, 12.288,
345.169

■ 42, 25.486,
159.085

■ 50, 17.559,
345.779

■ 41, 30.310,
157.767

■ 51, 22.704,
346.346

■ 41, 34.760,
156.282

■ 53, 27.711,
346.877

■ 40, 38.771,
154.614

■ 54, 32.578,
347.376

■ 40, 42.303,
152.756

■ 56, 37.301,
347.849

■ 40, 45.455,
150.822

■ 57, 41.883,
348.296

Harmonies

Complementary

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



45, 4.070, 163.137



43, 4.113, 344.156

Rectangle

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



45, 4.070, 163.137



45, 4.070, 213.137



45, 4.070, 343.137



45, 4.070, 33.137

Sweetspot

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



45, 4.071, 163.131



58, 1.357, 163.716



45, 5.033, 128.189



30, 0.777, 163.749



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, 4.071, 163.131



57, 6.131, 162.968



45, 3.222, 197.714



22, 3.068, 162.993



43, 49.168, 150.138



85, 87.133, 148.699

Inverse Universe

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



43, 4.113, 344.156



55, 6.205, 344.319



43, 3.361, 18.373



21, 3.104, 344.294



24, 47.928, 0.146



53, 82.065, 2.824

Previews

White Background



This preview shows how the CIELCh color 45, 4.070, 163.137 looks on a white background.

Color Contrast Check

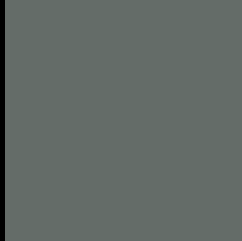
Large Text (above 18pt) WCAG AA ✓ Pass

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, 4.070, 163.137 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

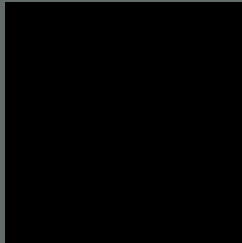
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

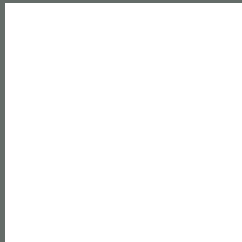
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 45, 4.070, 163.137

Background



This preview shows how black text looks on a background with the CIELCh color 45, 4.070, 163.137.



This preview shows how white text looks on a background with the CIELCh color 45, 4.070, 163.137.

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, 4.070, 163.137

Protanopia

45, 2.166, 74.682

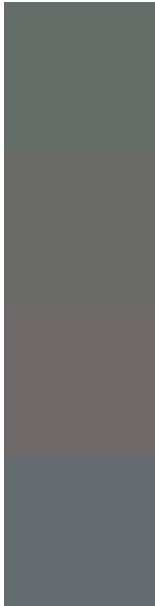
Deuteranopia

45, 5.983, 8.677



Tritanopia
45, 5.124, 268.283

Trichromacy



Original Color

45, 4.070, 163.137

Protanomaly

45, 2.415, 119.702

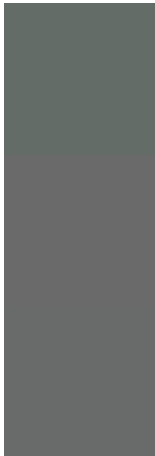
Deuteranomaly

45, 2.490, 19.573

Tritanomaly

45, 3.284, 232.289

Monochromacy



Original Color

45, 4.070, 163.137

Achromatopsia

45, 0.006, 296.813

Achromatomaly

45, 1.720, 155.611

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 4.070, 163.137 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(100, 108, 104)` looks like.

```
.text, #text, p{  
    color:rgb(100, 108, 104)  
}
```

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(100, 108, 104) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 108, 104) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 4.070, 163.137 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(100, 108, 104) }
```

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

```
.border{ border-color:rgb(100, 108, 104) }
```

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

Here you see how a box with a 4 pixel rgb(100, 108, 104) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 108, 104); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 108, 104);  
box-shadow:4px 4px 4px 4px rgb(100, 108,  
104) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 4.070, 163.137 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 108, 104) }
```

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

```
.background{ background-color: rgb(100,  
108, 104) }
```

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