

Converting Colors

CIELCh(15, 4.711, 20.478)

Have a look what the booklet for
CIELCh(15, 4.711, 20.478) contains.

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Color

CIELCh(15, 5.075, 20.652)

Conversions

Conversions Part 1

Format	Color
Hex	2D2323
RGB	45, 35, 35
RGB Percent	18%, 14%, 14%
CMY	0.8223, 0.8615, 0.8615
CMYK	0.00, 0.22, 0.22, 0.82
HSL	0°, 12%, 16%
HSV	0°, 22%, 18%
XYZ	2.0144, 1.9086, 1.8763
YIQ	37.9900, 5.9600, 2.1200

Conversions

Conversions Part 2

Format	Color
RYB	45, 35, 35
Decimal	2958115
CIELab	15.00, 4.75, 1.79
CIElCh	15, 5.075, 20.652
Yxy	1.9086, 0.3474, 0.3291
Android (android.graphics.Color)	4281148195 (0xFF2D2323)
YUV	37.9900, -1.4741, 6.1478
Hunter-Lab	13.8151, 1.8510, 1.6183

Details

The CIELCh color **15, 5.075, 20.652** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **18, 4.513, 198.516**, and the grayscale version is **15, 0.003, 296.813**.

A 20% lighter version of the original color is **35, 5.302, 20.149**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **13, 7.606, 21.474**, and if you desaturate by 10%, it is **17, 2.690, 19.978**.

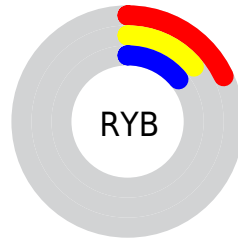
Distribution



Red (18%)

Green (14%)

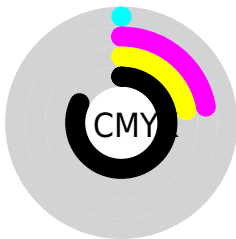
Blue (14%)



Red (18%)

Yellow (14%)

Blue (14%)

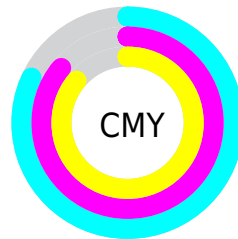


Cyan (0%)

Magenta (22%)

Yellow (22%)

Black (82%)



Cyan (82%)

Magenta (86%)

Yellow (86%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 15, 5.075, 20.652 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 15, 5.075, 20.652 by changing the saturation by 10% instead.

■ 15, 5.075, 20.652 ■ 15, 5.075, 20.652

■ 100, 5.075, 20.652 ■ 5, 5.075, 20.652

■ 35, 5.075, 20.652 ■ 0, 5.075, 20.652

■ 45, 5.075, 20.652

■ 55, 5.075, 20.652

■ 65, 5.075, 20.652

■ 75, 5.075, 20.652

■ 85, 5.075, 20.652

■ 95, 5.075, 20.652

■ 15, 5.075, 20.652 ■ 15, 5.075, 20.652

13, 7.606, 21.474

17, 2.690, 19.978

12, 10.281, 22.476

18, 0.452, 19.087

10, 13.071, 23.616

20, 1.647, 199.213

9, 15.747, 23.412

22, 3.618, 198.792

8, 18.189, 22.247

23, 5.470, 198.478

7, 20.202, 21.252

25, 7.215, 198.222

6, 22.044, 20.558

27, 8.864, 198.008

5, 23.432, 20.148

28, 10.427,
197.828

30, 11.912,
197.675

Harmonies

Complementary

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



15, 5.075, 20.652



18, 4.513, 198.516

Rectangle

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



15, 5.075, 20.652



15, 5.075, 70.652



15, 5.075, 200.652



15, 5.075, 250.652

Sweetspot

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



15, 5.074, 20.660



23, 1.906, 19.669



15, 8.494, 325.415



11, 1.252, 19.654



65, 0.008, 296.813



12, 0.003, 296.813

Same Dimension

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



15, 5.074, 20.660



19, 7.863, 21.165



17, 4.314, 73.184



7, 1.112, 19.318



16, 43.793, 33.544



45, 91.680, 40.002

Inverse Universe

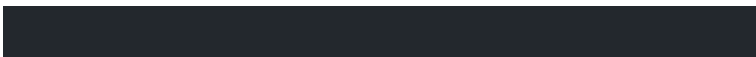
The Inverse Universe completely reimagines the original color for something new.



18, 4.513, 198.516



23, 6.737, 198.255



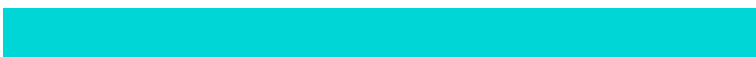
16, 4.117, 257.971



7, 1.112, 199.540



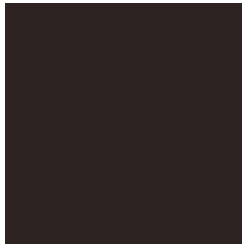
33, 22.832, 196.413



78, 43.924, 196.416

Previews

White Background



This preview shows how the CIELCh color 15, 5.075, 20.652 looks on a white background.

Color Contrast Check

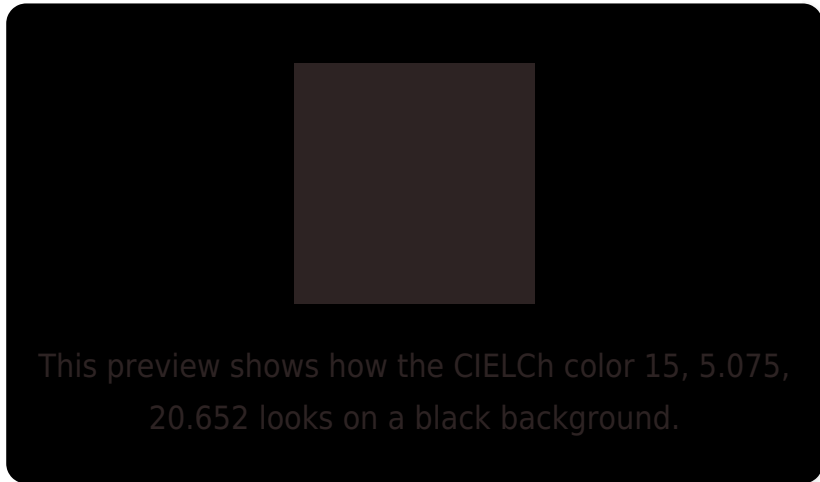
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

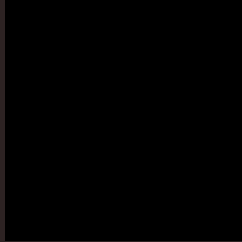
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 15, 5.075, 20.652

Background



This preview shows how black text looks on a background with the CIELCh color 15, 5.075, 20.652.

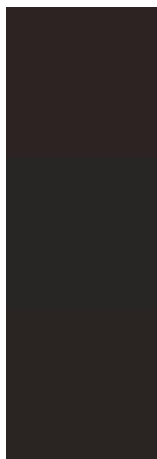


This preview shows how white text looks on a background with the CIELCh color 15, 5.075, 20.652.

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

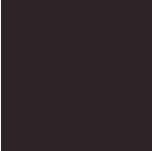
15, 5.075, 20.652

Protanopia

15, 0.852, 74.793

Deuteranopia

15, 3.103, 33.146



Tritanopia
15, 5.849, 359.857

Trichromacy



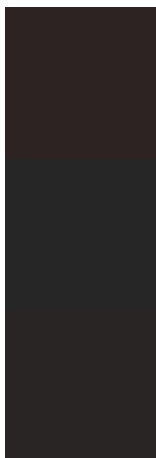
Original Color
15, 5.075, 20.652

Protanomaly
15, 2.110, 39.211

Deuteranomaly
15, 3.607, 31.407

Tritanomaly
15, 5.676, 6.584

Monochromacy



Original Color
15, 5.075, 20.652

Achromatopsia
15, 0.003, 296.813

Achromatomaly
15, 1.977, 19.796

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 15, 5.075, 20.652 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(45, 35, 35)` looks like.

```
.text, #text, p{  
    color:rgb(45, 35, 35)  
}
```

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(45, 35, 35) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 35, 35) }
```

Border

The CSS property to change the border of an element to CIELCh 15, 5.075, 20.652 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(45, 35, 35) }
```

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

```
.border{ border-color:rgb(45, 35, 35) }
```

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

Here you see how a box with a 4 pixel rgb(45, 35, 35) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 35, 35); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 35, 35);  
box-shadow:4px 4px 4px 4px rgb(45, 35, 35)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 15, 5.075, 20.652 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 35, 35) }
```

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

```
.background{ background-color: rgb(45, 35,  
35) }
```

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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