

Converting Colors

CIELCh(28, 19.033, 229.046)

Have a look what the booklet for
CIELCh(28, 19.033, 229.046)
contains.

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Color

CIELCh(28, 19.085, 230.635)

Conversions

Conversions Part 1

Format	Color
Hex	0C4858
RGB	12, 72, 88
RGB Percent	5%, 28%, 35%
CMY	0.9546, 0.7165, 0.6537
CMYK	0.87, 0.18, 0.00, 0.65
HSL	193°, 77%, 20%
HSV	193°, 87%, 35%
XYZ	4.2559, 5.4574, 10.1275
YIQ	55.8840, -40.8960, -7.7440

Conversions

Conversions Part 2

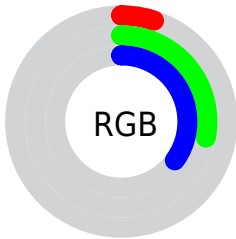
Format	Color
R_{YB}	12, 46, 88
Decimal	804952
CIE _{Lab}	28.00, -12.10, -14.76
CIE _{LCh}	28, 19.085, 230.635
Yxy	5.4574, 0.2145, 0.2751
Android (android.graphics.Color)	4278995032 (0xFF0C4858)
YUV	55.8840, 15.8332, -38.4863
Hunter-Lab	23.3610, -8.3627, -9.3506

Details

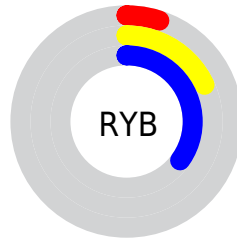
The CIELCh color **28, 19.085, 230.635** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **20, 36.607, 42.209**, and the grayscale version is **23, 0.004, 296.813**.

A 20% lighter version of the original color is **48, 19.012, 230.042**, and **9, 13.449, 249.139** is the 20% darker color. If you saturate the color by 10%, you get **27, 19.940, 233.386**, and if you desaturate by 10%, it is **29, 18.042, 228.143**.

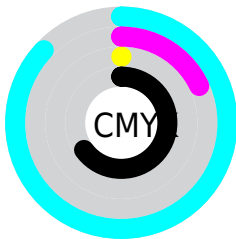
Distribution



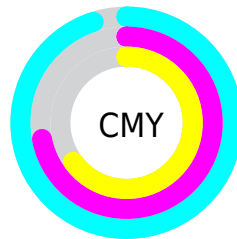
- Red (5%)
- Green (28%)
- Blue (35%)



- Red (5%)
- Yellow (18%)
- Blue (35%)



- Cyan (87%)
- Magenta (18%)
- Yellow (0%)
- Black (65%)





- Cyan (95%)
- Magenta (72%)
- Yellow (65%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 28, 19.085, 230.635 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 28, 19.085, 230.635 by changing the saturation by 10% instead.

 28, 19.085,
230.635


 28, 19.085,
230.635

 100, 19.085,
230.635

 18, 19.085,
230.635


 48, 19.085,
230.635


 8, 19.085, 230.635

 58, 19.085,
230.635

 0, 19.085, 230.635

 68, 19.085,
230.635

 78, 19.085,
230.635

 88, 19.085,
230.635

 98, 19.085,

230.635

■ 28, 19.085,
230.635

■ 28, 19.085,
230.635

■ 27, 19.940,
233.386

■ 29, 18.042,
228.143

■ 27, 20.219,
234.188

■ 30, 16.659,
226.135

■ 31, 14.934,
224.543

■ 32, 12.885,
223.302

■ 33, 10.543,
222.349

■ 34, 7.947, 221.634

■ 35, 5.135, 221.118

■ 37, 2.148, 220.813

■ 38, 0.981, 40.101

Harmonies

Complementary

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



28, 19.085, 230.635



20, 36.607, 42.209

Rectangle

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



28, 19.085, 230.635



28, 19.085, 280.635



28, 19.085, 50.635



28, 19.085, 100.635

Sweetspot

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



28, 19.084, 230.635



44, 9.533, 221.630



32, 45.961, 141.609



22, 6.470, 221.765



76, 0.009, 296.813



25, 0.004, 296.813

Same Dimension

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



28, 19.084, 230.635



35, 24.370, 235.568



15, 37.601, 291.858



17, 1.708, 220.845



33, 23.188, 235.231



70, 41.528, 238.130

Inverse Universe

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



19, 43.179, 336.668



25, 54.890, 338.157



29, 34.247, 82.639



16, 3.188, 331.300



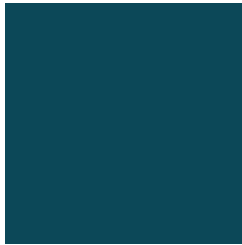
23, 52.326, 338.063



53, 92.106, 338.883

Previews

White Background



This preview shows how the CIE LCh color 28, 19.085, 230.635 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



This preview shows how the CIELCh color 28, 19.085, 230.635 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

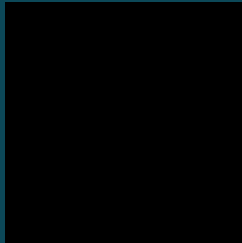
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

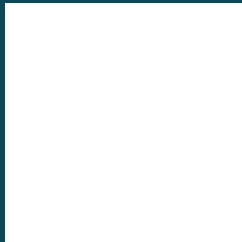
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 28, 19.085, 230.635

Background



This preview shows how black text looks on a background with the CIELCh color 28, 19.085, 230.635.



This preview shows how white text looks on a background with the CIELCh color 28, 19.085, 230.635.

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

28, 18.993, 230.829

Protanopia

28, 11.698, 286.585

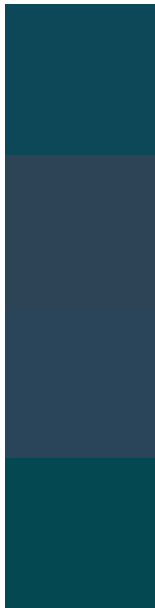
Deuteranopia

28, 16.276, 285.327



Tritanopia
28, 19.870, 206.095

Trichromacy



Original Color
28, 18.993, 230.829

Protanomaly
28, 13.659, 252.959

Deuteranomaly
28, 15.902, 258.246

Tritanomaly
28, 19.144, 214.813

Monochromacy



Original Color
28, 18.993, 230.829

Achromatopsia
24, 0.004, 296.813

Achromatomaly
25, 9.358, 223.361

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 28, 19.085, 230.635 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(12, 72, 88)` looks like.

```
.text, #text, p{  
    color:rgb(12, 72, 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(12, 72, 88) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 72, 88) }
```

Border

The CSS property to change the border of an element to CIELCh 28, 19.085, 230.635 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(12, 72, 88) }
```

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

```
.border{ border-color:rgb(12, 72, 88) }
```

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

Here you see how a box with a 4 pixel rgb(12, 72, 88) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 72, 88); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 72, 88);  
box-shadow:4px 4px 4px 4px rgb(12, 72, 88)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 28, 19.085, 230.635 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(12, 72, 88) }
```

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

```
.background{ background-color: rgb(12, 72,  
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](#).

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