

Converting Colors

CIELCh(15, 11.580, 196.042)

Have a look what the booklet for
CIELCh(15, 11.580, 196.042)
contains.

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Color

CIELCh(15, 11.456, 196.961)

Conversions

Conversions Part 1

Format	Color
Hex	0C2A2A
RGB	12, 42, 42
RGB Percent	5%, 16%, 16%
CMY	0.9526, 0.8350, 0.8350
CMYK	0.71, 0.00, 0.00, 0.83
HSL	180°, 55%, 11%
HSV	180°, 71%, 17%
XYZ	1.4034, 1.9086, 2.4928
YIQ	33.0300, -17.8800, -6.3600

Conversions

Conversions Part 2

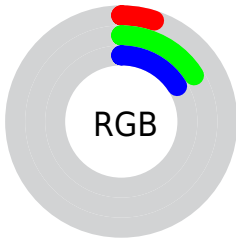
Format	Color
R_YB	12, 27, 42
Decimal	797226
CIE Lab	15.00, -10.96, -3.34
CIE LCh	15, 11.456, 196.961
Yxy	1.9086, 0.2418, 0.3288
Android (android.graphics.Color)	4278987306 (0xFF0C2A2A)
YUV	33.0300, 4.4222, -18.4433
Hunter-Lab	13.8151, -6.0443, -1.0277

Details

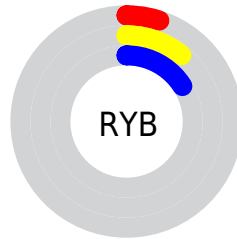
The CIELCh color **15, 11.456, 196.961** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **7, 16.573, 20.950**, and the grayscale version is **13, 0.003, 296.813**.

A 20% lighter version of the original color is **35, 11.243, 197.900**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **15, 12.431, 196.759**, and if you desaturate by 10%, it is **15, 10.315, 197.196**.

Distribution



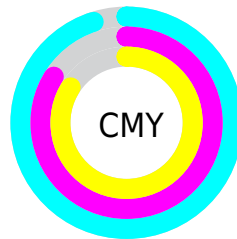
- Red (5%)
- Green (16%)
- Blue (16%)



- Red (5%)
- Yellow (11%)
- Blue (16%)



- Cyan (71%)
- Magenta (0%)
- Yellow (0%)
- Black (83%)



- Cyan (95%)
- Magenta (84%)
- Yellow (84%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 15, 11.456, 196.961 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, 11.456, 196.961 by changing the saturation by 10% instead.

■ 15, 11.456,
196.961

■ 15, 11.456,
196.961

■ 100, 11.456,
196.961

■ 5, 11.456, 196.961

■ 35, 11.456,
196.961

■ 0, 11.456, 196.961

■ 45, 11.456,
196.961


■ 55, 11.456,
196.961


■ 65, 11.456,
196.961


■ 75, 11.456,
196.961


■ 85, 11.456,


196.961


 95, 11.456,
196.961

 15, 11.456,
196.961


 15, 11.456,
196.961

 15, 12.431,
196.759

 15, 10.315,
197.196

 15, 13.413,
196.560


 15, 8.991, 197.474

 15, 14.302,
196.381

 16, 7.499, 197.793

 16, 5.859, 198.150

 16, 4.090, 198.546

 17, 2.215, 198.996

■ 17, 0.252, 200.097

■ 17, 1.780, 19.695

■ 18, 3.863, 20.224

Harmonies

Complementary

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



15, 11.456, 196.961



7, 16.573, 20.950

Rectangle

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



15, 11.456, 196.961



15, 11.456, 246.961



15, 11.456, 16.961



15, 11.456, 66.961

Sweetspot

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



15, 11.456, 196.959



21, 4.943, 198.508



14, 24.245, 140.455



10, 3.388, 198.506



64, 0.008, 296.813



10, 0.003, 296.813

Same Dimension

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



15, 11.456, 196.959



20, 15.257, 196.613



9, 11.832, 265.115



6, 0.896, 199.525



32, 22.374, 196.380



77, 43.545, 196.380

Inverse Universe

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



7, 16.573, 20.950



9, 24.959, 24.380



11, 13.050, 64.343



6, 0.896, 19.294



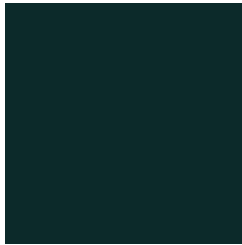
15, 42.656, 33.024



44, 90.860, 39.999

Previews

White Background



This preview shows how the CIELCh color 15, 11.456, 196.961 looks on a white background.

Color Contrast Check

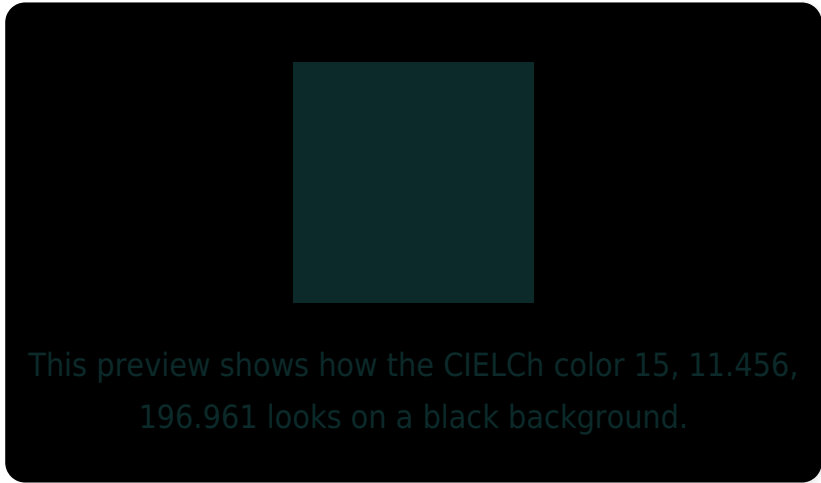
Large Text (above 18pt) WCAG AA ✓ Pass

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

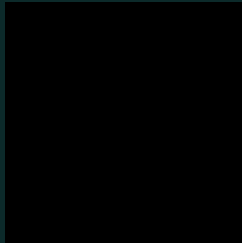
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 15, 11.456, 196.961

Background



This preview shows how black text looks on a background with the CIELCh color 15, 11.456, 196.961.



This preview shows how white text looks on a background with the CIELCh color 15, 11.456, 196.961.

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, 11.456, 196.961

Protanopia
15, 0.708, 290.402

Deuteranopia
15, 4.360, 303.680



Tritanopia
15, 10.710, 208.769

Trichromacy



Original Color
15, 11.456, 196.961

Protanomaly
15, 4.570, 207.393

Deuteranomaly
15, 5.154, 232.088

Tritanomaly
15, 10.995, 204.591

Monochromacy



Original Color
15, 11.456, 196.961

Achromatopsia
13, 0.003, 296.813

Achromatomaly
13, 5.040, 198.228

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 15, 11.456, 196.961 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, 42, 42)` looks like.

```
.text, #text, p{  
    color:rgb(12, 42, 42)  
}
```

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, 42, 42) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 42, 42) }
```

Border

The CSS property to change the border of an element to CIELCh 15, 11.456, 196.961 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, 42, 42) }
```

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

```
.border{ border-color:rgb(12, 42, 42) }
```

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

Here you see how a box with a 4 pixel `rgb(12, 42, 42)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 42, 42); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 42, 42);  
box-shadow:4px 4px 4px 4px rgb(12, 42, 42)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 15, 11.456, 196.961 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(12, 42, 42) }
```

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

```
.background{ background-color: rgb(12, 42,  
42) }
```

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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