

Converting Colors

CIELCh(15, 13.354, 324.881)

Have a look what the booklet for
CIELCh(15, 13.354, 324.881)
contains.

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Color

CIELCh(15, 13.182, 324.116)

Conversions

Conversions Part 1

Format	Color
Hex	302131
RGB	48, 33, 49
RGB Percent	19%, 13%, 19%
CMY	0.8131, 0.8719, 0.8092
CMYK	0.02, 0.33, 0.00, 0.81
HSL	296°, 20%, 16%
HSV	296°, 33%, 19%
XYZ	2.2847, 1.9086, 3.1159
YIQ	39.3090, 3.8040, 8.1560

Conversions

Conversions Part 2

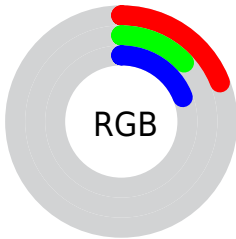
Format	Color
R_{YB}	48, 33, 49
Decimal	3154225
CIE Lab	15.00, 10.68, -7.73
CIE LCh	15, 13.182, 324.116
Yxy	1.9086, 0.3126, 0.2611
Android (android.graphics.Color)	4281344305 (0xFF302131)
YUV	39.3090, 4.7777, 7.6220
Hunter-Lab	13.8151, 5.3436, -3.7020

Details

The CIELCh color **15, 13.182, 324.116** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **18, 13.136, 141.061**, and the grayscale version is **16, 0.003, 296.813**.

A 20% lighter version of the original color is **35, 13.297, 323.837**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **14, 17.142, 324.515**, and if you desaturate by 10%, it is **17, 9.159, 323.700**.

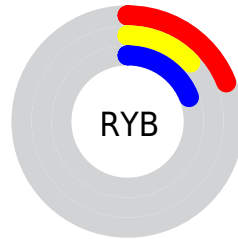
Distribution



Red (19%)

Green (13%)

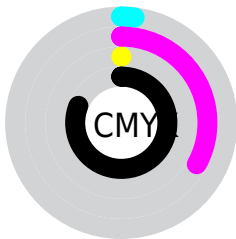
Blue (19%)



Red (19%)

Yellow (13%)

Blue (19%)

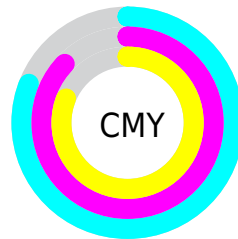


Cyan (2%)

Magenta (33%)

Yellow (0%)

Black (81%)



Cyan (81%)


Magenta (87%)


Yellow (81%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 15, 13.182, 324.116 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, 13.182, 324.116 by changing the saturation by 10% instead.

 15, 13.182,
324.116


 15, 13.182,
324.116


 100, 13.182,
324.116


 5, 13.182, 324.116


 35, 13.182,
324.116

 0, 13.182, 324.116

 45, 13.182,
324.116


 55, 13.182,
324.116


 65, 13.182,
324.116


 75, 13.182,
324.116


 85, 13.182,

324.116

 95, 13.182,
324.116

 15, 13.182,
324.116


 15, 13.182,
324.116

 14, 17.142,
324.515


 17, 9.159, 323.700

 12, 20.971,
324.888

 18, 5.129, 323.272


 11, 24.576,
325.220

 20, 1.131, 322.790

 10, 27.854,
325.500

 23, 6.669, 142.071

 9, 30.736, 325.721

 25, 10.444,
141.680

■ 8, 33.752, 325.967

■ 26, 14.126,
141.308

■ 7, 35.987, 326.129

■ 28, 17.713,
140.955

■ 30, 21.205,
140.621

Harmonies

Complementary

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



15, 13.182, 324.116



18, 13.136, 141.061

Rectangle

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



15, 13.182, 324.116



15, 13.182, 14.116



15, 13.182, 144.116



15, 13.182, 194.116

Sweetspot

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



15, 13.181, 324.116



25, 5.004, 323.172



14, 10.672, 290.775



11, 3.451, 323.185



66, 0.008, 296.813



13, 0.003, 296.813

Same Dimension

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



15, 13.181, 324.116



19, 19.596, 324.451



15, 9.977, 342.520



8, 2.289, 323.072



18, 53.900, 325.950



49, 102.590, 325.754

Inverse Universe

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



15, 8.251, 16.743



19, 12.566, 17.690



19, 9.744, 157.856



8, 1.345, 14.511



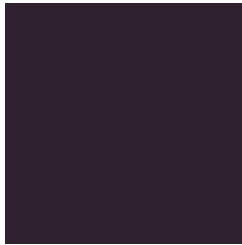
16, 43.879, 31.505



45, 89.972, 37.920

Previews

White Background



This preview shows how the CIELCh color 15, 13.182, 324.116 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, 13.182, 324.116

Background



This preview shows how black text looks on a background with the CIELCh color 15, 13.182, 324.116.



This preview shows how white text looks on a background with the CIELCh color 15, 13.182, 324.116.

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

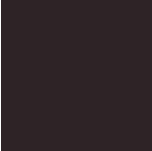
15, 13.182, 324.116

Protanopia

15, 10.641, 286.315

Deuteranopia

15, 7.784, 289.076



Tritanopia
15, 5.849, 359.857

Trichromacy



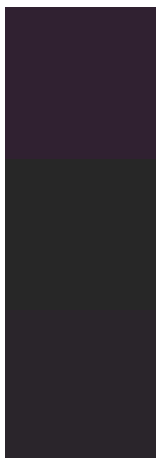
Original Color
15, 13.182, 324.116

Protanomaly
15, 11.518, 301.829

Deuteranomaly
15, 9.529, 306.184

Tritanomaly
15, 8.414, 339.686

Monochromacy



Original Color
15, 13.182, 324.116

Achromatopsia
16, 0.003, 296.813

Achromatomaly
15, 4.869, 320.292

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 15, 13.182, 324.116 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(48, 33, 49)` looks like.

```
.text, #text, p{  
    color:rgb(48, 33, 49)  
}
```

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(48, 33, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(48, 33, 49) }
```

Border

The CSS property to change the border of an element to CIELCh 15, 13.182, 324.116 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(48, 33, 49) }
```

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

```
.border{ border-color:rgb(48, 33, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(48, 33, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(48, 33, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(48, 33, 49);  
box-shadow:4px 4px 4px 4px rgb(48, 33, 49)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 15, 13.182, 324.116 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(48, 33, 49) }
```

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

```
.background{ background-color: rgb(48, 33,  
49) }
```

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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