

Converting Colors

CIELCh(24, 13.097, 18.127)

Have a look what the booklet for
CIELCh(24, 13.097, 18.127) contains.

CIELCh(24, 13.155, 19.300)	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(24, 13.155, 19.300)

Conversions

Conversions Part 1

Format	Color
Hex	4D3233
RGB	77, 50, 51
RGB Percent	30%, 20%, 20%
CMY	0.6980, 0.8039, 0.7999
CMYK	0.00, 0.35, 0.34, 0.70
HSL	358°, 21%, 25%
HSV	358°, 35%, 30%
XYZ	4.8011, 4.1002, 3.6722
YIQ	58.1870, 15.7710, 6.0350

Conversions

Conversions Part 2

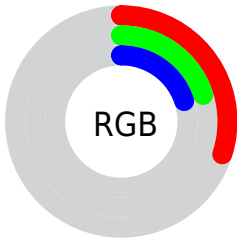
Format	Color
R_{YB}	77, 50, 51
Decimal	5059123
CIE _{Lab}	24.00, 12.42, 4.35
CIE _{LCh}	24, 13.155, 19.300
Yxy	4.1002, 0.3818, 0.3261
Android (android.graphics.Color)	4283249203 (0xFF4D3233)
YUV	58.1870, -3.5432, 16.4990
Hunter-Lab	20.2490, 6.8874, 3.4220

Details

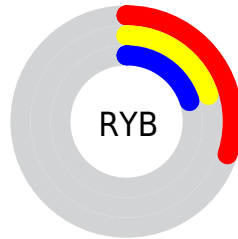
The CIELCh color **24, 13.155, 19.300** is a dark color, and the websafe version is hex **663333**. A complement of this color would be **31, 10.746, 194.405**, and the grayscale version is **25, 0.004, 296.813**.

A 20% lighter version of the original color is **44, 13.022, 21.094**, and **4, 13.515, 17.694** is the 20% darker color. If you saturate the color by 10%, you get **22, 17.400, 20.677**, and if you desaturate by 10%, it is **26, 9.111, 18.205**.

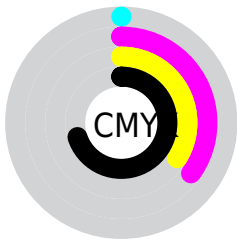
Distribution



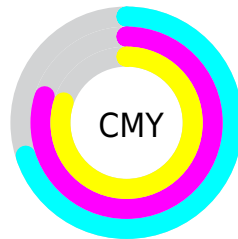
- Red (30%)
- Green (20%)
- Blue (20%)



- Red (30%)
- Yellow (20%)
- Blue (20%)



- Cyan (0%)
- Magenta (35%)
- Yellow (34%)
- Black (70%)



- Cyan (70%)
- Magenta (80%)
- Yellow (80%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 24, 13.155, 19.300 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 24, 13.155, 19.300 by changing the saturation by 10% instead.

■ 24, 13.155, 19.300

■ 24, 13.155, 19.300

■ 100, 13.155,
19.300

■ 14, 13.155, 19.300

■ 44, 13.155, 19.300

■ 4, 13.155, 19.300

■ 54, 13.155, 19.300

■ 0, 13.155, 19.300

■ 64, 13.155, 19.300

■ 74, 13.155, 19.300

■ 84, 13.155, 19.300

■ 94, 13.155, 19.300

■ 24, 13.155, 19.300

■ 24, 13.155, 19.300

22, 17.400, 20.677

26, 9.111, 18.205

20, 21.792, 22.404

29, 5.297, 17.306

18, 26.247, 24.571

31, 1.721, 16.485

16, 30.649, 27.254

34, 1.625, 196.230

15, 34.446, 29.253

37, 4.754, 195.632

14, 37.453, 29.875

39, 7.684, 195.200

13, 38.962, 29.905

42, 10.435,
194.842

45, 13.025,
194.538

47, 15.472,
194.276

Harmonies

Complementary

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



24, 13.155, 19.300



31, 10.746, 194.405

Rectangle

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



24, 13.155, 19.300



24, 13.155, 69.300



24, 13.155, 199.300



24, 13.155, 249.300

Sweetspot

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



24, 13.154, 19.304



39, 4.724, 17.011



25, 20.710, 324.704



19, 3.207, 17.063



73, 0.009, 296.813



21, 0.004, 296.813

Same Dimension

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



24, 13.154, 19.304



29, 19.957, 20.444



27, 10.820, 66.189



14, 1.911, 16.793



19, 49.716, 34.500



48, 95.082, 38.859

Inverse Universe

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



24, 13.154, 19.304



29, 19.957, 20.444



27, 9.634, 254.643



14, 1.911, 16.793



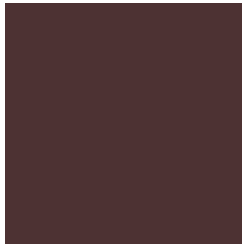
19, 49.716, 34.500



48, 95.082, 38.859

Previews

White Background



This preview shows how the CIE LCh color 24, 13.155, 19.300 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 CIE LCh color 24, 13.155, 19.300 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

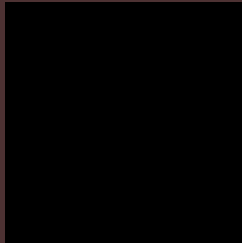
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 24, 13.155, 19.300

Background



This preview shows how black text looks on a background with the CIELCh color 24, 13.155, 19.300.

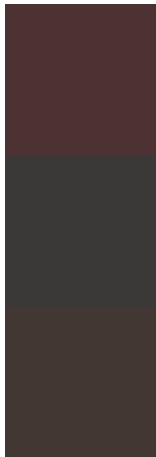


This preview shows how white text looks on a background with the CIELCh color 24, 13.155, 19.300.

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

24, 13.155, 19.300

Protanopia

24, 1.606, 74.616

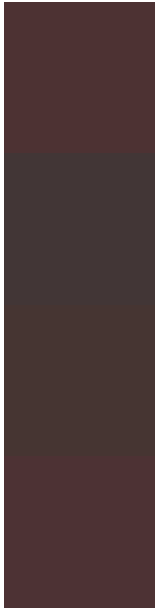
Deuteranopia

24, 6.295, 51.638



Tritanopia
24, 13.108, 13.614

Trichromacy



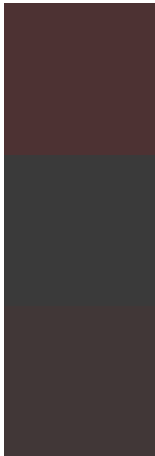
Original Color
24, 13.155, 19.300

Protanomaly
24, 5.683, 20.468

Deuteranomaly
24, 8.553, 34.184

Tritanomaly
24, 13.114, 16.462

Monochromacy



Original Color
24, 13.155, 19.300

Achromatopsia
24, 0.004, 296.813

Achromatomaly
24, 4.702, 20.256

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 24, 13.155, 19.300 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(77, 50, 51)` looks like.

```
.text, #text, p{  
    color:rgb(77, 50, 51)  
}
```

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(77, 50, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 50, 51) }
```

Border

The CSS property to change the border of an element to CIELCh 24, 13.155, 19.300 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(77, 50, 51) }
```

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

```
.border{ border-color:rgb(77, 50, 51) }
```

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

Here you see how a box with a 4 pixel rgb(77, 50, 51) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 50, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 50, 51);  
box-shadow:4px 4px 4px 4px rgb(77, 50, 51)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 24, 13.155, 19.300 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 50, 51) }
```

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

```
.background{ background-color: rgb(77, 50,  
51) }
```

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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