

Converting Colors

CIE LCh(23, 4.731, 19.343)

Have a look what the booklet for
CIELCh(23, 4.731, 19.343) contains.

CIELCh(23, 4.732, 20.285)	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(23, 4.732, 20.285)

Conversions

Conversions Part 1

Format	Color
Hex	3F3535
RGB	63, 53, 53
RGB Percent	25%, 21%, 21%
CMY	0.7547, 0.7939, 0.7939
CMYK	0.00, 0.16, 0.16, 0.75
HSL	0°, 9%, 23%
HSV	0°, 16%, 25%
XYZ	3.9058, 3.8003, 3.8424
YIQ	55.9900, 5.9600, 2.1200

Conversions

Conversions Part 2

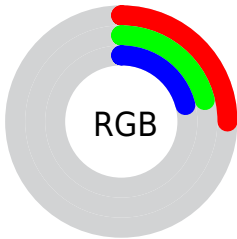
Format	Color
RYB	63, 53, 53
Decimal	4142389
CIELab	23.00, 4.44, 1.64
CIELCh	23, 4.732, 20.285
Yxy	3.8003, 0.3382, 0.3291
Android (android.graphics.Color)	4282332469 (0xFF3F3535)
YUV	55.9900, -1.4741, 6.1478
Hunter-Lab	19.4944, 1.6484, 1.9600

Details

The CIELCh color **23, 4.732, 20.285** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **26, 4.328, 198.721**, and the grayscale version is **23, 0.004, 296.813**.

A 20% lighter version of the original color is **43, 4.695, 27.220**, and **3, 4.632, 19.397** is the 20% darker color. If you saturate the color by 10%, you get **21, 7.962, 21.092**, and if you desaturate by 10%, it is **25, 1.708, 19.585**.

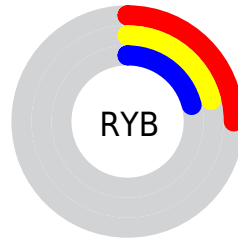
Distribution



Red (25%)

Green (21%)

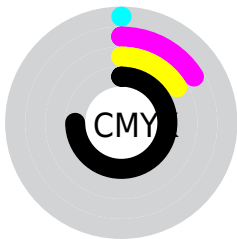
Blue (21%)



Red (25%)

Yellow (21%)

Blue (21%)

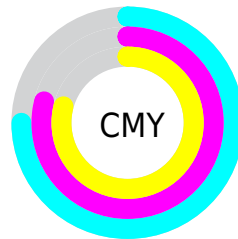


Cyan (0%)

Magenta (16%)

Yellow (16%)

Black (75%)



Cyan (75%)

Magenta (79%)

Yellow (79%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 23, 4.732, 20.285 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 23, 4.732, 20.285 by changing the saturation by 10% instead.

■ 23, 4.732, 20.285

■ 23, 4.732, 20.285

■ 100, 4.732, 20.285

■ 13, 4.732, 20.285

■ 43, 4.732, 20.285

■ 3, 4.732, 20.285

■ 53, 4.732, 20.285

■ 0, 4.732, 20.285

■ 63, 4.732, 20.285

■ 73, 4.732, 20.285

■ 83, 4.732, 20.285

■ 93, 4.732, 20.285

■ 23, 4.732, 20.285

■ 23, 4.732, 20.285

■ 21, 7.962, 21.092

■ 25, 1.708, 19.585

■ 19, 11.396, 22.077

■ 27, 1.116, 199.445

■ 17, 15.019, 23.318

■ 30, 3.753, 198.887

■ 15, 18.790, 24.883

■ 32, 6.221, 198.529

■ 13, 22.642, 26.816

■ 34, 8.535, 198.245

■ 12, 26.119, 27.724

■ 36, 10.711,
198.012

■ 11, 28.927, 27.639

■ 38, 12.766,
197.817

■ 10, 31.643, 27.061

■ 9, 32.810, 26.698

■ 41, 14.711,
197.654

■ 43, 16.560,
197.515

Harmonies

Complementary

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



23, 4.732, 20.285



26, 4.328, 198.721

Rectangle

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



23, 4.732, 20.285



23, 4.732, 70.285



23, 4.732, 200.285



23, 4.732, 250.285

Sweetspot

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



23, 4.731, 20.295



33, 1.783, 19.523



23, 8.036, 325.189



16, 1.196, 19.544



69, 0.009, 296.813



16, 0.003, 296.813

Same Dimension

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



23, 4.731, 20.295



30, 7.122, 20.586



25, 4.048, 73.682



10, 1.574, 19.765



17, 47.179, 34.875



46, 94.132, 40.001

Inverse Universe

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



26, 4.328, 198.721



33, 6.366, 198.540



24, 3.909, 257.338



11, 1.504, 199.114



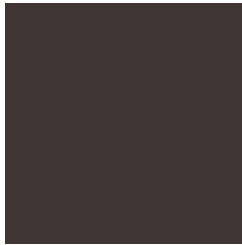
36, 24.213, 196.395



80, 45.107, 196.395

Previews

White Background



This preview shows how the CIE LCh color 23, 4.732, 20.285 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 23, 4.732, 20.285 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

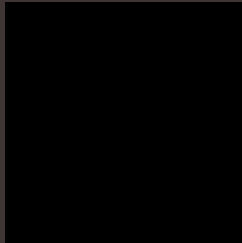
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 4.732, 20.285

Background



This preview shows how black text looks on a background with the CIELCh color 23, 4.732, 20.285.

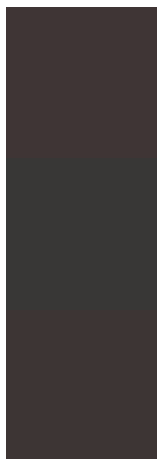


This preview shows how white text looks on a background with the CIELCh color 23, 4.732, 20.285.

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

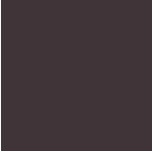
23, 4.732, 20.285

Protanopia

23, 0.803, 74.866

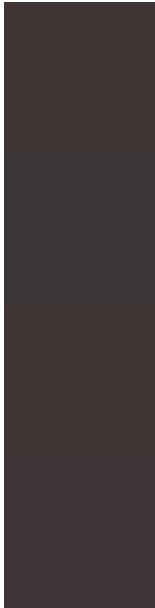
Deuteranopia

23, 3.849, 29.976



Tritanopia
23, 5.765, 353.136

Trichromacy



Original Color

23, 4.732, 20.285

Protanomaly

23, 1.981, 39.219

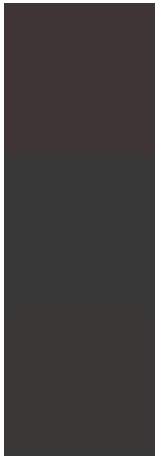
Deuteranomaly

23, 4.327, 28.961

Tritanomaly

23, 5.515, 359.354

Monochromacy



Original Color

23, 4.732, 20.285

Achromatopsia

24, 0.004, 296.813

Achromatomaly

23, 1.387, 19.508

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 4.732, 20.285 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(63, 53, 53)` looks like.

```
.text, #text, p{  
    color:rgb(63, 53, 53)  
}
```

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(63, 53, 53) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(63, 53, 53) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 4.732, 20.285 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(63, 53, 53) }
```

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

```
.border{ border-color:rgb(63, 53, 53) }
```

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

Here you see how a box with a 4 pixel `rgb(63, 53, 53)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(63, 53, 53); -webkit-box-  
shadow:4px 4px 4px 4px rgb(63, 53, 53);  
box-shadow:4px 4px 4px 4px rgb(63, 53, 53)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 4.732, 20.285 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(63, 53, 53) }
```

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

```
.background{ background-color: rgb(63, 53,  
53) }
```

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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