

Converting Colors

CIELCh(23, 12.814, 38.029)

Have a look what the booklet for
CIELCh(23, 12.814, 38.029) contains.

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Color

CIELCh(23, 12.652, 36.691)

Conversions

Conversions Part 1

Format	Color
Hex	49312C
RGB	73, 49, 44
RGB Percent	29%, 19%, 17%
CMY	0.7136, 0.8077, 0.8273
CMYK	0.00, 0.33, 0.40, 0.71
HSL	10°, 25%, 23%
HSV	10°, 40%, 29%
XYZ	4.3063, 3.8003, 2.8933
YIQ	55.6060, 15.9090, 3.5330

Conversions

Conversions Part 2

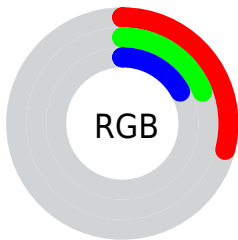
Format	Color
RYB	73, 50, 44
Decimal	4796716
CIELab	23.00, 10.15, 7.56
CIELCh	23, 12.652, 36.691
Yxy	3.8003, 0.3915, 0.3455
Android (android.graphics.Color)	4282986796 (0xFF49312C)
YUV	55.6060, -5.7218, 15.2545
Hunter-Lab	19.4944, 5.3156, 4.8464

Details

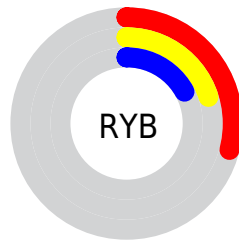
The CIELCh color **23, 12.652, 36.691** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **27, 9.792, 217.611**, and the grayscale version is **23, 0.004, 296.813**.

A 20% lighter version of the original color is **43, 13.006, 36.808**, and **3, 11.323, 23.488** is the 20% darker color. If you saturate the color by 10%, you get **21, 16.429, 37.145**, and if you desaturate by 10%, it is **25, 9.117, 36.415**.

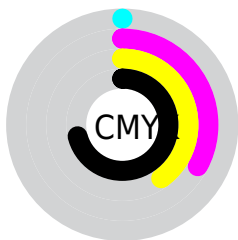
Distribution



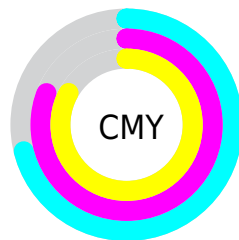
- Red (29%)
- Green (19%)
- Blue (17%)



- Red (29%)
- Yellow (20%)
- Blue (17%)



- Cyan (0%)
- Magenta (33%)
- Yellow (40%)
- Black (71%)



- Cyan (71%)
- Magenta (81%)
- Yellow (83%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 23, 12.652, 36.691 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, 12.652, 36.691 by changing the saturation by 10% instead.

■ 23, 12.652, 36.691

■ 23, 12.652, 36.691

■ 100, 12.652,
36.691

■ 13, 12.652, 36.691

■ 43, 12.652, 36.691

■ 3, 12.652, 36.691

■ 53, 12.652, 36.691

■ 0, 12.652, 36.691

■ 63, 12.652, 36.691

■ 73, 12.652, 36.691

■ 83, 12.652, 36.691

■ 93, 12.652, 36.691

■ 23, 12.652, 36.691

■ 23, 12.652, 36.691

■ 21, 16.429, 37.145

■ 25, 9.117, 36.415

■ 19, 20.438, 37.791

■ 27, 5.826, 36.262

■ 18, 24.642, 38.657

■ 29, 2.765, 36.186

■ 16, 28.681, 39.052

■ 31, 0.081, 219.633

■ 15, 31.911, 38.097

■ 33, 2.731, 216.564

■ 14, 34.777, 37.654

■ 35, 5.204, 216.691

■ 14, 34.857, 37.655

■ 37, 7.519, 216.886

■ 40, 9.694, 217.115

■ 42, 11.743,
217.366

Harmonies

Complementary

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



23, 12.652, 36.691



27, 9.792, 217.611

Rectangle

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



23, 12.652, 36.691



23, 12.652, 86.691



23, 12.652, 216.691



23, 12.652, 266.691

Sweetspot

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



23, 12.651, 36.697



37, 4.269, 36.205



22, 20.255, 331.609



18, 2.860, 36.209



72, 0.009, 296.813



20, 0.004, 296.813

Same Dimension

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



23, 12.651, 36.697



28, 19.622, 37.150



27, 13.419, 86.517



13, 1.550, 36.175



20, 46.845, 40.925



49, 92.240, 42.432

Inverse Universe

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



27, 9.792, 217.611



34, 14.041, 218.330



22, 13.324, 276.873



13, 1.478, 216.559



32, 21.825, 227.400



70, 39.904, 230.049

Previews

White Background



This preview shows how the CIE LCh color 23, 12.652, 36.691 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, 12.652, 36.691 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

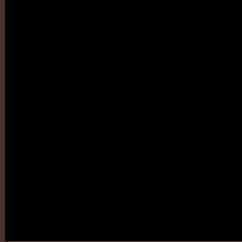
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 12.652, 36.691

Background



This preview shows how black text looks on a background with the CIELCh color 23, 12.652, 36.691.

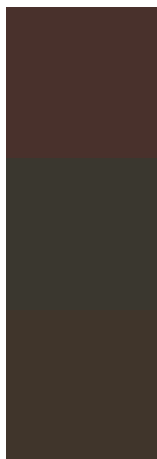


This preview shows how white text looks on a background with the CIELCh color 23, 12.652, 36.691.

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, 12.652, 36.691

Protanopia

23, 5.500, 93.687

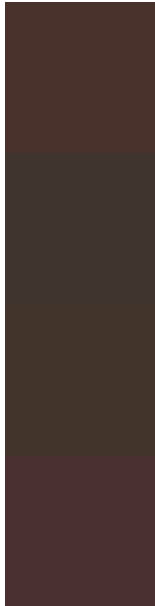
Deuteranopia

23, 8.691, 69.342



Tritanopia
23, 12.740, 10.317

Trichromacy



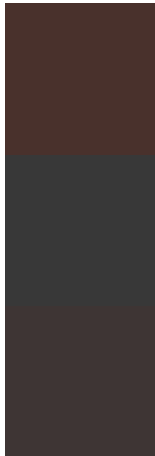
Original Color
23, 12.652, 36.691

Protanomaly
23, 6.809, 62.832

Deuteranomaly
23, 9.731, 57.961

Tritanomaly
23, 12.745, 19.173

Monochromacy



Original Color
23, 12.652, 36.691

Achromatopsia
24, 0.004, 296.813

Achromatomaly
23, 4.327, 28.961

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 12.652, 36.691 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(73, 49, 44)` looks like.

```
.text, #text, p{  
    color:rgb(73, 49, 44)  
}
```

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(73, 49, 44) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 49, 44) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 12.652, 36.691 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(73, 49, 44) }
```

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

```
.border{ border-color:rgb(73, 49, 44) }
```

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

Here you see how a box with a 4 pixel `rgb(73, 49, 44)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(73, 49, 44); -webkit-box-  
shadow:4px 4px 4px 4px rgb(73, 49, 44);  
box-shadow:4px 4px 4px 4px rgb(73, 49, 44)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 12.652, 36.691 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(73, 49, 44) }
```

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

```
.background{ background-color: rgb(73, 49,  
44) }
```

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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