

Converting Colors

CIELCh(23, 9.755, 197.692)

Have a look what the booklet for
CIELCh(23, 9.755, 197.692) contains.

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Color

CIELCh(23, 9.749, 197.712)

Conversions

Conversions Part 1

Format	Color
Hex	233B3B
RGB	35, 59, 59
RGB Percent	14%, 23%, 23%
CMY	0.8628, 0.7686, 0.7686
CMYK	0.41, 0.00, 0.00, 0.77
HSL	180°, 26%, 18%
HSV	180°, 41%, 23%
XYZ	3.0459, 3.8003, 4.7100
YIQ	51.8240, -14.3040, -5.0880

Conversions

Conversions Part 2

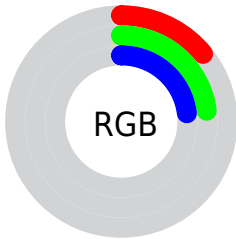
Format	Color
RYB	35, 47, 59
Decimal	2308923
CIELab	23.00, -9.29, -2.97
CIElCh	23, 9.749, 197.712
Yxy	3.8003, 0.2636, 0.3289
Android (android.graphics.Color)	4280499003 (0xFF233B3B)
YUV	51.8240, 3.5378, -14.7546
Hunter-Lab	19.4944, -6.2255, -0.6787

Details

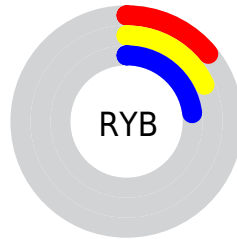
The CIELCh color **23, 9.749, 197.712** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **17, 12.444, 22.566**, and the grayscale version is **22, 0.004, 296.813**.

A 20% lighter version of the original color is **43, 9.656, 198.288**, and **4, 5.159, 193.155** is the 20% darker color. If you saturate the color by 10%, you get **23, 11.670, 197.379**, and if you desaturate by 10%, it is **23, 7.609, 198.085**.

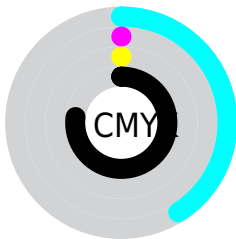
Distribution



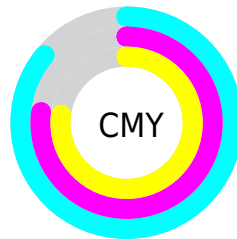
- Red (14%)
- Green (23%)
- Blue (23%)



- Red (14%)
- Yellow (18%)
- Blue (23%)



- Cyan (41%)
- Magenta (0%)
- Yellow (0%)
- Black (77%)



- Cyan (86%)
- Magenta (77%)
- Yellow (77%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 23, 9.749, 197.712 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, 9.749, 197.712 by changing the saturation by 10% instead.

■ 23, 9.749, 197.712

■ 23, 9.749, 197.712

■ 100, 9.749,
197.712

■ 13, 9.749, 197.712

■ 43, 9.749, 197.712

■ 3, 9.749, 197.712

■ 53, 9.749, 197.712

■ 0, 9.749, 197.712

■ 63, 9.749, 197.712

■ 73, 9.749, 197.712

■ 83, 9.749, 197.712

■ 93, 9.749, 197.712

■ 23, 9.749, 197.712

■ 23, 9.749, 197.712

■ 23, 11.670,
197.379

■ 23, 7.609, 198.085

■ 22, 13.342,
197.095

■ 24, 5.279, 198.505

■ 24, 2.793, 198.985

■ 22, 14.744,
196.861

■ 25, 0.182, 200.656

■ 22, 15.861,
196.676

■ 25, 2.527, 19.770

■ 26, 5.307, 20.329

■ 22, 16.783,
196.525

■ 27, 8.136, 20.869

■ 22, 17.656,
196.382

■ 27, 10.995, 21.410

■ 28, 13.870, 21.953

Harmonies

Complementary

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



23, 9.749, 197.712



17, 12.444, 22.566

Rectangle

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



23, 9.749, 197.712



23, 9.749, 247.712



23, 9.749, 17.712



23, 9.749, 67.712

Sweetspot

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



23, 9.749, 197.709



32, 3.881, 198.888



22, 19.359, 141.509



15, 2.526, 198.882



68, 0.008, 296.813



15, 0.003, 296.813

Same Dimension

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



23, 9.749, 197.709



30, 13.980, 197.361



19, 9.199, 259.299



11, 1.504, 199.107



36, 24.215, 196.382



80, 45.112, 196.382

Inverse Universe

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



17, 12.444, 22.566



21, 19.195, 24.007



20, 10.260, 69.327



10, 1.574, 19.758



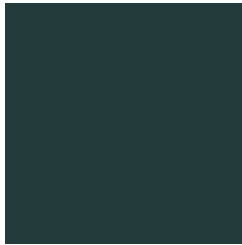
17, 47.179, 34.872



46, 94.132, 39.999

Previews

White Background



This preview shows how the CIELCh color 23, 9.749, 197.712 looks on a white background.

Color Contrast Check

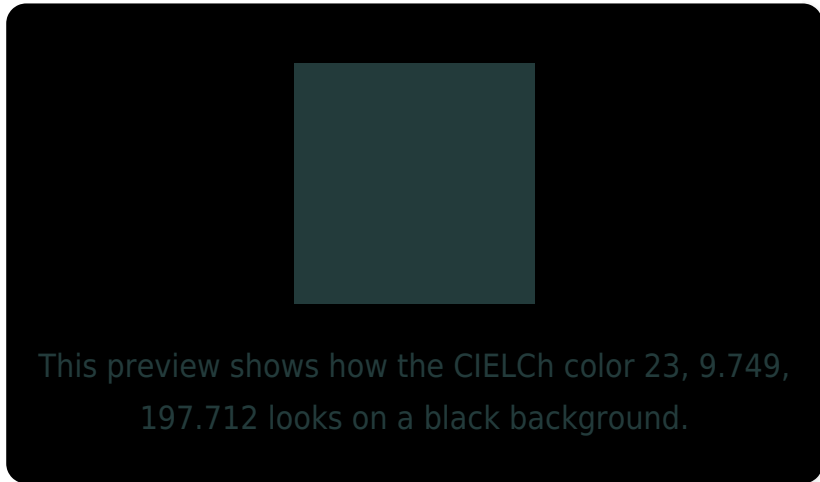
Large Text (above 18pt) WCAG AA ✓ Pass

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

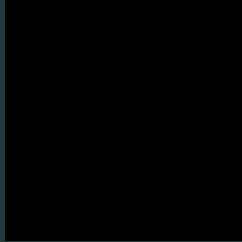
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

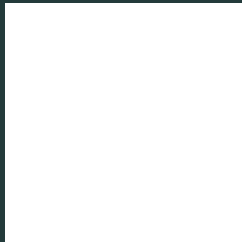
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 23, 9.749, 197.712

Background



This preview shows how black text looks on a background with the CIELCh color 23, 9.749, 197.712.



This preview shows how white text looks on a background with the CIELCh color 23, 9.749, 197.712.

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, 9.749, 197.712

Protanopia

23, 1.421, 309.167

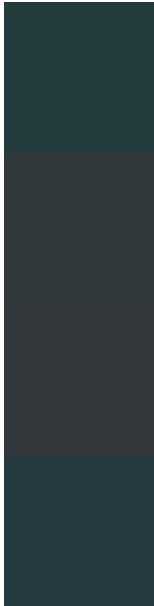
Deuteranopia

23, 5.214, 316.592



Tritanopia
23, 9.208, 219.454

Trichromacy



Original Color

23, 9.749, 197.712

Protanomaly

23, 3.571, 209.655

Deuteranomaly

23, 3.941, 257.413

Tritanomaly

23, 9.081, 215.224

Monochromacy



Original Color

23, 9.749, 197.712

Achromatopsia

22, 0.004, 296.813

Achromatomaly

22, 3.984, 198.716

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 9.749, 197.712 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(35, 59, 59)` looks like.

```
.text, #text, p{  
    color:rgb(35, 59, 59)  
}
```

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(35, 59, 59) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(35, 59, 59) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 9.749, 197.712 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(35, 59, 59) }
```

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

```
.border{ border-color:rgb(35, 59, 59) }
```

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

Here you see how a box with a 4 pixel `rgb(35, 59, 59)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(35, 59, 59); -webkit-box-  
shadow:4px 4px 4px 4px rgb(35, 59, 59);  
box-shadow:4px 4px 4px 4px rgb(35, 59, 59)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 9.749, 197.712 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(35, 59, 59) }
```

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

```
.background{ background-color: rgb(35, 59,  
59) }
```

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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