

Converting Colors

CIELCh(19, 60.221, 10.569)

Have a look what the booklet for
CIELCh(19, 60.221, 10.569) contains.

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Color

CIELCh(23, 49.081, 20.181)

Conversions

Conversions Part 1

Format	Color
Hex	740020
RGB	116, 0, 32
RGB Percent	45%, 0%, 13%
CMY	0.5447, 1.0000, 0.8730
CMYK	0.00, 1.00, 0.72, 0.54
HSL	343°, 100%, 23%
HSV	343°, 100%, 46%
XYZ	7.4698, 3.8003, 1.7330
YIQ	38.3320, 58.8640, 34.5440

Conversions

Conversions Part 2

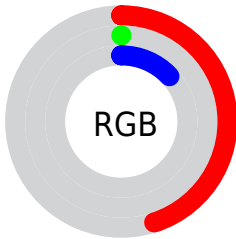
Format	Color
RYB	116, 0, 32
Decimal	7602208
CIELab	23.00, 46.07, 16.93
CIELCh	23, 49.081, 20.181
Yxy	3.8003, 0.5745, 0.2923
Android (android.graphics.Color)	4285792288 (0xFF740020)
YUV	38.3320, -3.1217, 68.1148
Hunter-Lab	19.4944, 34.2823, 8.3752

Details

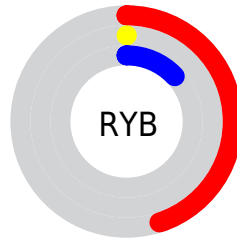
The CIELCh color **23, 49.081, 20.181** is a dark color, and the websafe version is hex **990033**. A complement of this color would be **43, 37.922, 164.530**, and the grayscale version is **15, 0.003, 296.813**.

A 20% lighter version of the original color is **43, 48.863, 20.369**, and **9, 31.983, 25.401** is the 20% darker color. If you saturate the color by 10%, you get **23, 48.872, 20.414**, and if you desaturate by 10%, it is **24, 45.622, 15.997**.

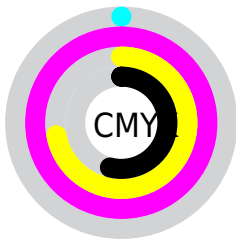
Distribution



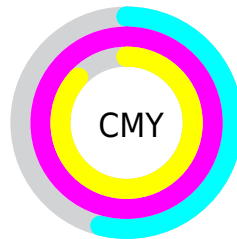
- Red (45%)
- Green (0%)
- Blue (13%)



- Red (45%)
- Yellow (0%)
- Blue (13%)



- Cyan (0%)
- Magenta (100%)
- Yellow (72%)
- Black (54%)



- Cyan (54%)
- Magenta (100%)
- Yellow (87%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 23, 49.081, 20.181 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, 49.081, 20.181 by changing the saturation by 10% instead.

■ 23, 49.081, 20.181

■ 23, 49.081, 20.181

■ 100, 49.081,
20.181

■ 13, 49.081, 20.181

■ 43, 49.081, 20.181

■ 3, 49.081, 20.181

■ 53, 49.081, 20.181

■ 0, 49.081, 20.181

■ 63, 49.081, 20.181

■ 73, 49.081, 20.181

■ 83, 49.081, 20.181

■ 93, 49.081, 20.181

■ 23, 49.081, 20.181

■ 23, 49.081, 20.181

■ 23, 48.872, 20.414

■ 24, 45.622, 15.997

■ 25, 42.099, 11.870

■ 27, 37.793, 8.541

■ 30, 32.833, 5.885

■ 32, 27.434, 3.754

■ 35, 21.816, 2.020

■ 39, 16.160, 0.581

■ 42, 10.592,
359.361

■ 45, 5.193, 358.291

Harmonies

Complementary

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



23, 49.081, 20.181



43, 37.922, 164.530

Rectangle

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



23, 49.081, 20.181



23, 49.081, 70.181



23, 49.081, 200.181



23, 49.081, 250.181

Sweetspot

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



23, 48.872, 20.414



49, 20.003, 0.682



20, 66.644, 318.264



24, 13.817, 1.140



82, 0.010, 296.813



33, 0.005, 296.813

Same Dimension

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



23, 48.872, 20.414



31, 59.438, 21.989



25, 52.993, 43.738



23, 2.941, 358.193



25, 50.843, 20.764



53, 87.928, 24.174

Inverse Universe

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



23, 48.872, 20.414



31, 59.438, 21.989



35, 24.683, 237.305



23, 2.941, 358.193



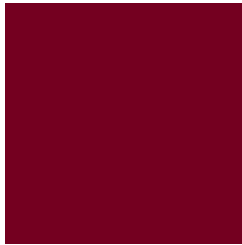
25, 50.843, 20.764



53, 87.928, 24.174

Previews

White Background



This preview shows how the CIE LCh color 23, 49.081, 20.181 looks on a white background.

Color Contrast Check

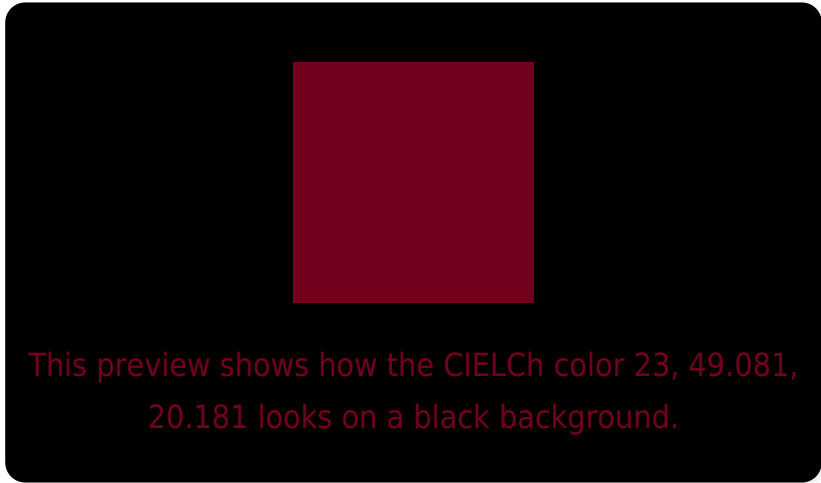
Large Text (above 18pt) WCAG AA ✓ Pass

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

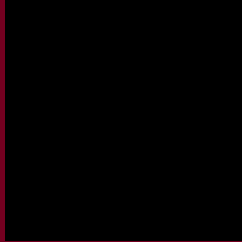
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 49.081, 20.181

Background



This preview shows how black text looks on a background with the CIELCh color 23, 49.081, 20.181.



This preview shows how white text looks on a background with the CIELCh color 23, 49.081, 20.181.

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, 48.900, 20.664

Protanopia

25, 7.467, 93.563

Deuteranopia

25, 21.640, 80.980



Tritanopia
24, 52.539, 36.577

Trichromacy



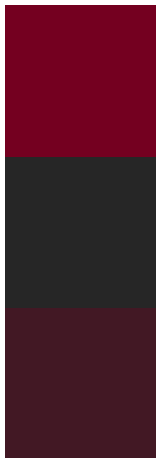
Original Color
23, 48.900, 20.664

Protanomaly
21, 22.058, 18.235

Deuteranomaly
22, 29.351, 35.905

Tritanomaly
23, 51.164, 31.791

Monochromacy



Original Color
23, 48.900, 20.664

Achromatopsia
15, 0.003, 296.813

Achromatomaly
15, 21.854, 5.086

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 49.081, 20.181 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(116, 0, 32)` looks like.

```
.text, #text, p{  
    color:rgb(116, 0, 32)  
}
```

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(116, 0, 32) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 0, 32) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 49.081, 20.181 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(116, 0, 32) }
```

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

```
.border{ border-color:rgb(116, 0, 32) }
```

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

Here you see how a box with a 4 pixel rgb(116, 0, 32) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(116, 0, 32); -webkit-box-  
shadow:4px 4px 4px 4px rgb(116, 0, 32);  
box-shadow:4px 4px 4px 4px rgb(116, 0, 32)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 49.081, 20.181 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(116, 0, 32) }
```

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

```
.background{ background-color: rgb(116, 0,  
32) }
```

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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