

Converting Colors

CIELCh(23, 20.724, 163.395)

Have a look what the booklet for
CIELCh(23, 20.724, 163.395)
contains.

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Color

CIELCh(23, 20.411, 164.485)

Conversions

Conversions Part 1

Format	Color
Hex	123E2E
RGB	18, 62, 46
RGB Percent	7%, 24%, 18%
CMY	0.9284, 0.7560, 0.8188
CMYK	0.71, 0.00, 0.26, 0.76
HSL	158°, 55%, 16%
HSV	158°, 71%, 24%
XYZ	2.4868, 3.8003, 3.2096
YIQ	47.0200, -21.0880, -14.3040

Conversions

Conversions Part 2

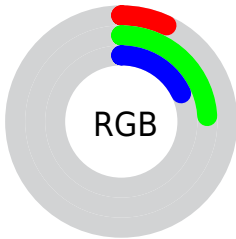
Format	Color
RYB	18, 45, 62
Decimal	1195566
CIELab	23.00, -19.67, 5.46
CIElCh	23, 20.411, 164.485
Yxy	3.8003, 0.2619, 0.4002
Android (android.graphics.Color)	4279385646 (0xFF123E2E)
YUV	47.0200, -0.5029, -25.4505
Hunter-Lab	19.4944, -11.3445, 3.8845

Details

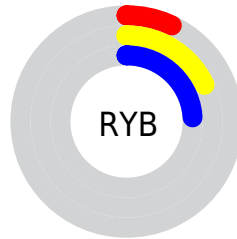
The CIELCh color **23, 20.411, 164.485** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **13, 23.260, 0.539**, and the grayscale version is **20, 0.004, 296.813**.

A 20% lighter version of the original color is **43, 20.426, 165.021**, and **4, 9.813, 144.443** is the 20% darker color. If you saturate the color by 10%, you get **23, 22.572, 163.024**, and if you desaturate by 10%, it is **23, 17.998, 165.804**.

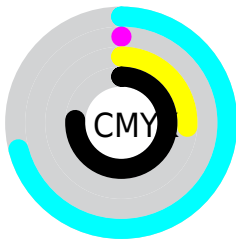
Distribution



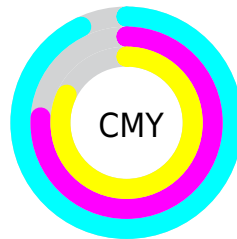
- Red (7%)
- Green (24%)
- Blue (18%)



- Red (7%)
- Yellow (18%)
- Blue (24%)



- Cyan (71%)
- Magenta (0%)
- Yellow (26%)
- Black (76%)



- Cyan (93%)
- Magenta (76%)
- Yellow (82%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 23, 20.411, 164.485 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, 20.411, 164.485 by changing the saturation by 10% instead.

 23, 20.411,
164.485


 23, 20.411,
164.485

 100, 20.411,
164.485

 13, 20.411,
164.485

 43, 20.411,
164.485


 3, 20.411, 164.485

 53, 20.411,
164.485

 0, 20.411, 164.485

 63, 20.411,
164.485

 73, 20.411,
164.485

 83, 20.411,
164.485

 93, 20.411,

164.485

■ 23, 20.411,
164.485

■ 23, 20.411,
164.485

■ 23, 22.572,
163.024

■ 23, 17.998,
165.804

■ 23, 24.538,
161.512

■ 24, 15.364,
167.000

■ 22, 26.411,
160.321

■ 24, 12.544,
168.088

■ 25, 9.580, 169.086

■ 25, 6.512, 170.010

■ 26, 3.377, 170.885

■ 26, 0.207, 172.580

■ 27, 2.971, 352.291

■ 28, 6.134, 353.025

Harmonies

Complementary

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



23, 20.411, 164.485



13, 23.260, 0.539

Rectangle

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



23, 20.411, 164.485



23, 20.411, 214.485



23, 20.411, 344.485



23, 20.411, 34.485

Sweetspot

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



23, 20.411, 164.484



33, 8.289, 169.893



23, 30.541, 130.736



15, 5.511, 169.817



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, 20.411, 164.484



30, 28.940, 161.708



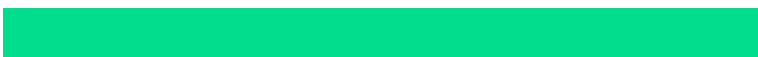
21, 13.559, 214.379



11, 1.735, 171.084



35, 35.923, 158.742



79, 69.187, 156.828

Inverse Universe

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



13, 23.260, 0.539



16, 33.202, 5.286



14, 22.224, 35.454



10, 1.766, 352.265



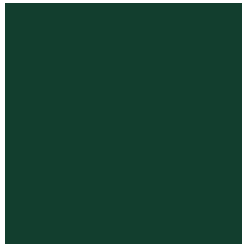
18, 40.947, 11.237



47, 77.162, 15.846

Previews

White Background



This preview shows how the CIELCh color 23, 20.411, 164.485 looks on a white background.

Color Contrast Check

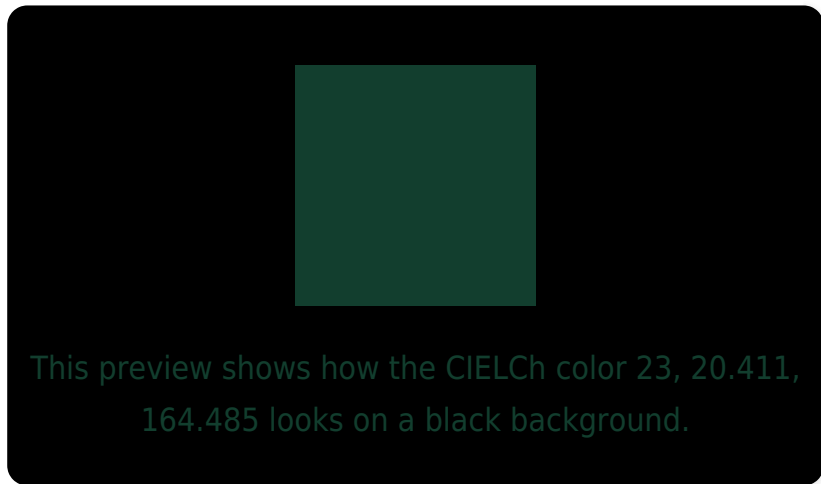
Large Text (above 18pt) WCAG AA ✓ Pass

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

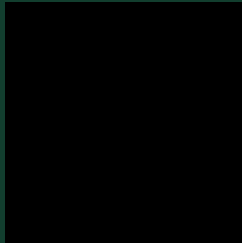
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 20.411, 164.485

Background



This preview shows how black text looks on a background with the CIELCh color 23, 20.411, 164.485.



This preview shows how white text looks on a background with the CIELCh color 23, 20.411, 164.485.

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, 20.411, 164.485

Protanopia

23, 8.086, 97.833

Deuteranopia

23, 5.919, 54.075



Tritanopia
23, 12.664, 212.844

Trichromacy



Original Color
23, 20.411, 164.485

Protanomaly
23, 11.420, 143.108

Deuteranomaly
22, 7.366, 143.620

Tritanomaly
23, 14.482, 188.903

Monochromacy



Original Color
23, 20.411, 164.485

Achromatopsia
19, 0.004, 296.813

Achromatomaly
21, 8.322, 168.536

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 20.411, 164.485 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(18, 62, 46)` looks like.

```
.text, #text, p{  
    color:rgb(18, 62, 46)  
}
```

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(18, 62, 46) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(18, 62, 46) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 20.411, 164.485 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(18, 62, 46) }
```

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

```
.border{ border-color:rgb(18, 62, 46) }
```

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

Here you see how a box with a 4 pixel `rgb(18, 62, 46)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(18, 62, 46); -webkit-box-  
shadow:4px 4px 4px 4px rgb(18, 62, 46);  
box-shadow:4px 4px 4px 4px rgb(18, 62, 46)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 20.411, 164.485 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(18, 62, 46) }
```

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

```
.background{ background-color: rgb(18, 62,  
46) }
```

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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