

Converting Colors

CIELCh(20, 20.867, 20.703)

Have a look what the booklet for
CIELCh(20, 20.867, 20.703) contains.

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Color

CIELCh(20, 20.923, 21.193)

Conversions

Conversions Part 1

Format	Color
Hex	4D2426
RGB	77, 36, 38
RGB Percent	30%, 14%, 15%
CMY	0.6977, 0.8585, 0.8507
CMYK	0.00, 0.53, 0.51, 0.70
HSL	357°, 36%, 22%
HSV	357°, 53%, 30%
XYZ	4.0529, 2.9891, 2.2038
YIQ	48.4870, 23.7940, 9.3140

Conversions

Conversions Part 2

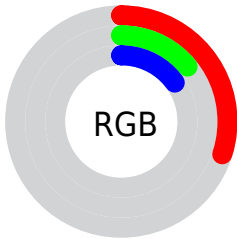
Format	Color
R_{YB}	77, 36, 38
Decimal	5055526
CIE _{Lab}	20.00, 19.51, 7.56
CIE _{LCh}	20, 20.923, 21.193
Yxy	2.9891, 0.4383, 0.3233
Android (android.graphics.Color)	4283245606 (0xFF4D2426)
YUV	48.4870, -5.1701, 25.0059
Hunter-Lab	17.2889, 11.5884, 4.5444

Details

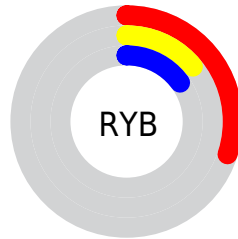
The CIELCh color **20, 20.923, 21.193** is a dark color, and the websafe version is hex **663333**. A complement of this color would be **30, 15.261, 192.321**, and the grayscale version is **20, 0.004, 296.813**.

A 20% lighter version of the original color is **40, 20.753, 20.866**, and **3, 13.904, 17.743** is the 20% darker color. If you saturate the color by 10%, you get **18, 25.336, 23.295**, and if you desaturate by 10%, it is **22, 16.576, 19.523**.

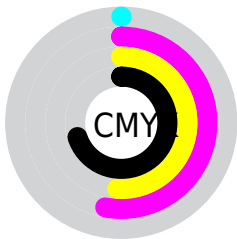
Distribution



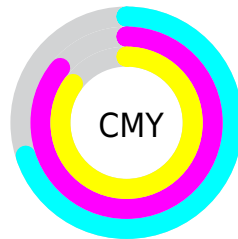
- Red (30%)
- Green (14%)
- Blue (15%)



- Red (30%)
- Yellow (14%)
- Blue (15%)



- Cyan (0%)
- Magenta (53%)
- Yellow (51%)
- Black (70%)



- Cyan (70%)
- Magenta (86%)
- Yellow (85%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 20.923, 21.193 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 20, 20.923, 21.193 by changing the saturation by 10% instead.

■ 20, 20.923, 21.193

■ 20, 20.923, 21.193

■ 100, 20.923,
21.193

■ 10, 20.923, 21.193

■ 0, 20.923, 21.193

■ 40, 20.923, 21.193

■ 50, 20.923, 21.193

■ 60, 20.923, 21.193

■ 70, 20.923, 21.193

■ 80, 20.923, 21.193

■ 90, 20.923, 21.193

■ 20, 20.923, 21.193

■ 20, 20.923, 21.193

18, 25.336, 23.295

22, 16.576, 19.523

16, 29.709, 25.903

24, 12.381, 18.187

15, 33.695, 28.377

27, 8.387, 17.109

14, 36.795, 29.387

29, 4.619, 16.218

13, 38.852, 29.454

32, 1.082, 15.315

35, 2.230, 195.105

37, 5.331, 194.540

40, 8.239, 194.103

42, 10.973,
193.736

Harmonies

Complementary

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



20, 20.923, 21.193



30, 15.261, 192.321

Rectangle

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



20, 20.923, 21.193



20, 20.923, 71.193



20, 20.923, 201.193



20, 20.923, 251.193

Sweetspot

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



20, 20.922, 21.196



37, 6.992, 16.504



21, 30.900, 325.449



18, 4.776, 16.594



73, 0.009, 296.813



21, 0.004, 296.813

Same Dimension

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



20, 20.922, 21.196



24, 31.825, 24.046



25, 17.204, 64.354



14, 1.912, 15.847



19, 49.475, 34.030



48, 94.646, 38.510

Inverse Universe

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



20, 20.922, 21.196



24, 31.825, 24.046



24, 14.284, 258.465



14, 1.912, 15.847



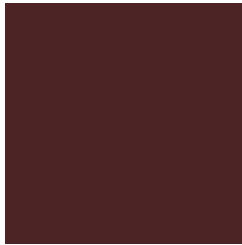
19, 49.475, 34.030



48, 94.646, 38.510

Previews

White Background



This preview shows how the CIE LCh color 20, 20.923, 21.193 looks on a white background.

Color Contrast Check

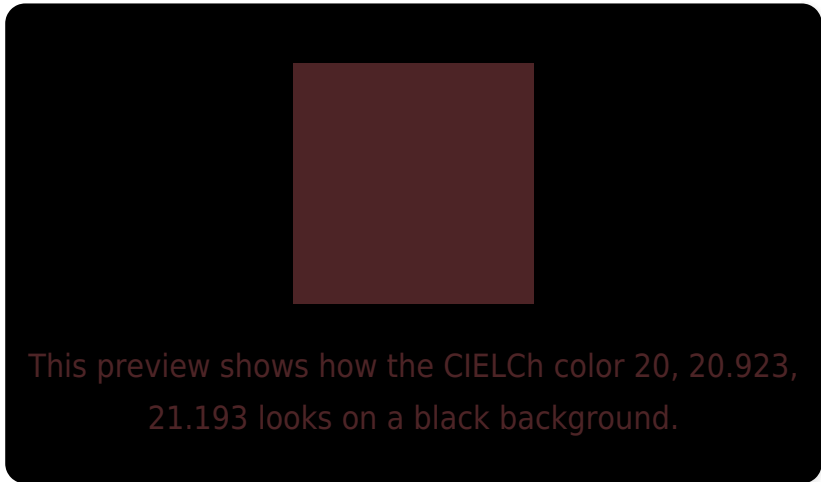
Large Text (above 18pt) WCAG AA ✓ Pass

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

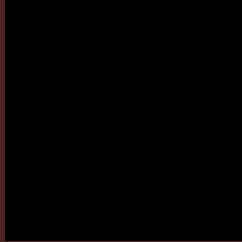
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 20.923, 21.193

Background



This preview shows how black text looks on a background with the CIELCh color 20, 20.923, 21.193.



This preview shows how white text looks on a background with the CIELCh color 20, 20.923, 21.193.

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

20, 20.923, 21.193

Protanopia

20, 3.512, 93.335

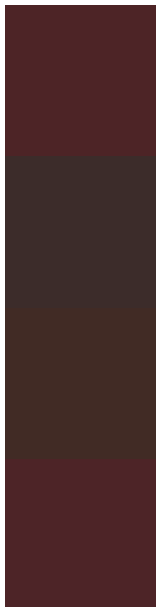
Deuteranopia

20, 9.438, 71.368



Tritanopia
20, 20.809, 19.384

Trichromacy



Original Color

20, 20.923, 21.193

Protanomaly

20, 8.153, 30.572

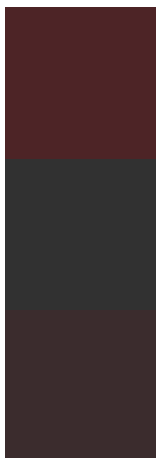
Deuteranomaly

20, 12.252, 40.748

Tritanomaly

20, 20.809, 19.384

Monochromacy



Original Color

20, 20.923, 21.193

Achromatopsia

20, 0.004, 296.813

Achromatomaly

20, 7.379, 15.802

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 20.923, 21.193 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(77, 36, 38)` looks like.

```
.text, #text, p{  
    color:rgb(77, 36, 38)  
}
```

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(77, 36, 38) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 36, 38) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 20.923, 21.193 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(77, 36, 38) }
```

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

```
.border{ border-color:rgb(77, 36, 38) }
```

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

Here you see how a box with a 4 pixel rgb(77, 36, 38) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 36, 38); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 36, 38);  
box-shadow:4px 4px 4px 4px rgb(77, 36, 38)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 20.923, 21.193 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 36, 38) }
```

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

```
.background{ background-color: rgb(77, 36,  
38) }
```

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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