

Converting Colors

CIELCh(20, 9.516, 162.713)

Have a look what the booklet for
CIELCh(20, 9.516, 162.713) contains.

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Color

CIELCh(20, 9.516, 162.713)

Conversions

Conversions Part 1

Format	Color
Hex	23342C
RGB	35, 52, 44
RGB Percent	14%, 20%, 17%
CMY	0.8629, 0.7963, 0.8277
CMYK	0.33, 0.00, 0.15, 0.80
HSL	152°, 20%, 17%
HSV	152°, 33%, 20%
XYZ	2.3706, 2.9891, 2.8297
YIQ	46.0050, -7.5640, -6.0920

Conversions

Conversions Part 2

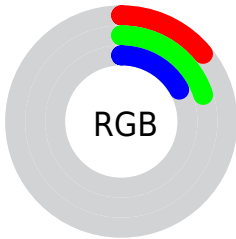
Format	Color
RYB	35, 46, 52
Decimal	2307116
CIELab	20.00, -9.09, 2.83
CIELCh	20, 9.516, 162.713
Yxy	2.9891, 0.2895, 0.3650
Android (android.graphics.Color)	4280497196 (0xFF23342C)
YUV	46.0050, -0.9885, -9.6514
Hunter-Lab	17.2889, -5.7802, 2.3981

Details

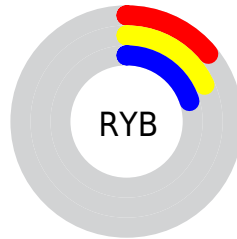
The CIELCh color **20, 9.516, 162.713** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **16, 9.898, 347.865**, and the grayscale version is **19, 0.004, 296.813**.

A 20% lighter version of the original color is **40, 10.012, 160.750**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **20, 12.319, 161.759**, and if you desaturate by 10%, it is **20, 6.642, 163.583**.

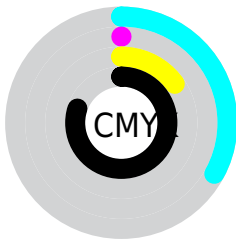
Distribution



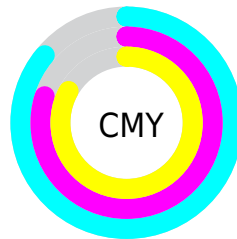
- Red (14%)
- Green (20%)
- Blue (17%)



- Red (14%)
- Yellow (18%)
- Blue (20%)



- Cyan (33%)
- Magenta (0%)
- Yellow (15%)
- Black (80%)



- Cyan (86%)
- Magenta (80%)
- Yellow (83%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 9.516, 162.713 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, 9.516, 162.713 by changing the saturation by 10% instead.

■ 20, 9.516, 162.713

■ 20, 9.516, 162.713

■ 100, 9.516,
162.713

■ 10, 9.516, 162.713

■ 0, 9.516, 162.713

■ 40, 9.516, 162.713

■ 50, 9.516, 162.713

■ 60, 9.516, 162.713

■ 70, 9.516, 162.713

■ 80, 9.516, 162.713

■ 90, 9.516, 162.713

■ 20, 9.516, 162.713

■ 20, 9.516, 162.713

■ 20, 12.319,
161.759

■ 20, 6.642, 163.583

■ 19, 15.014,
160.709

■ 21, 3.726, 164.392

■ 19, 17.568,
159.546

■ 22, 0.795, 165.281

■ 19, 19.947,
158.256

■ 23, 5.023, 346.347

■ 18, 22.127,
156.835

■ 23, 7.880, 346.946

■ 18, 24.276,
155.589

■ 24, 10.685,
347.504

■ 18, 25.872,
154.860

■ 25, 13.433,
348.029

■ 26, 16.119,
348.526

Harmonies

Complementary

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



20, 9.516, 162.713



16, 9.898, 347.865

Rectangle

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



20, 9.516, 162.713



20, 9.516, 212.713



20, 9.516, 342.713



20, 9.516, 32.713

Sweetspot

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



20, 9.517, 162.712



27, 3.593, 164.570



20, 12.196, 128.388



12, 2.398, 164.552



66, 0.008, 296.813



13, 0.003, 296.813

Same Dimension

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



20, 9.517, 162.712



26, 13.823, 161.941



20, 7.138, 199.622



9, 1.592, 164.754



33, 38.710, 152.512



77, 76.770, 150.408

Inverse Universe

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



16, 9.898, 347.865



20, 14.511, 348.671



16, 8.612, 22.852



8, 1.610, 345.783



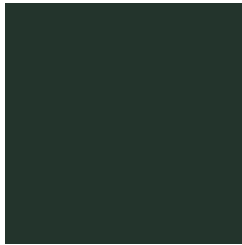
17, 39.452, 1.266



47, 74.697, 5.356

Previews

White Background



This preview shows how the CIELCh color 20, 9.516, 162.713 looks on a white background.

Color Contrast Check

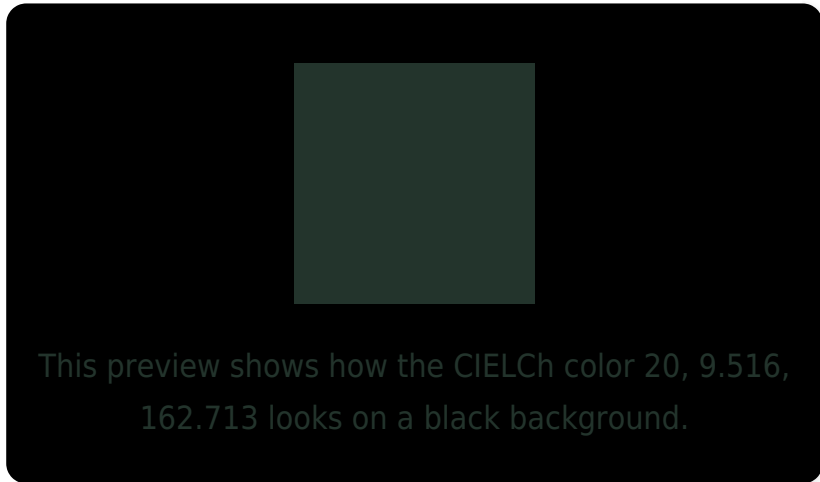
Large Text (above 18pt) WCAG AA ✓ Pass

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

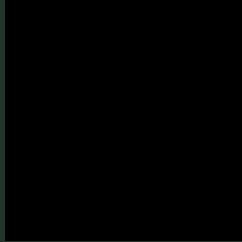
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 9.516, 162.713

Background



This preview shows how black text looks on a background with the CIELCh color 20, 9.516, 162.713.



This preview shows how white text looks on a background with the CIELCh color 20, 9.516, 162.713.

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

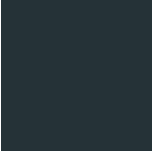
20, 9.516, 162.713

Protanopia

20, 4.323, 89.258

Deuteranopia

20, 3.664, 41.640



Tritanopia
20, 6.348, 231.194

Trichromacy



Original Color
20, 9.516, 162.713

Protanomaly
20, 4.517, 134.252

Deuteranomaly
20, 2.882, 128.788

Tritanomaly
20, 6.495, 198.173

Monochromacy



Original Color
20, 9.516, 162.713

Achromatopsia
19, 0.004, 296.813

Achromatomaly
19, 3.497, 162.828

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 9.516, 162.713 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, 52, 44)` looks like.

```
.text, #text, p{  
    color:rgb(35, 52, 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(35, 52, 44) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(35, 52, 44) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 9.516, 162.713 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, 52, 44) }
```

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

```
.border{ border-color:rgb(35, 52, 44) }
```

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

Here you see how a box with a 4 pixel `rgb(35, 52, 44)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(35, 52, 44); -webkit-box-  
shadow:4px 4px 4px 4px rgb(35, 52, 44);  
box-shadow:4px 4px 4px 4px rgb(35, 52, 44)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 9.516, 162.713 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(35, 52, 44) }
```

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

```
.background{ background-color: rgb(35, 52,  
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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