

Converting Colors

CIELCh(20, 12.061, 156.887)

Have a look what the booklet for
CIELCh(20, 12.061, 156.887)
contains.

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Color

CIELCh(20, 12.318, 155.835)

Conversions

Conversions Part 1

Format	Color
Hex	213529
RGB	33, 53, 41
RGB Percent	13%, 21%, 16%
CMY	0.8719, 0.7936, 0.8406
CMYK	0.38, 0.00, 0.23, 0.79
HSL	144°, 23%, 17%
HSV	144°, 38%, 21%
XYZ	2.2673, 2.9891, 2.5240
YIQ	45.6520, -8.0680, -7.9720

Conversions

Conversions Part 2

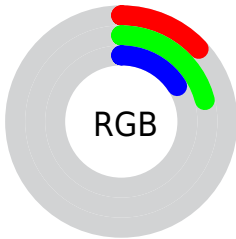
Format	Color
RYB	33, 47, 53
Decimal	2176297
CIELab	20.00, -11.24, 5.04
CIELCh	20, 12.318, 155.835
Yxy	2.9891, 0.2914, 0.3842
Android (android.graphics.Color)	4280366377 (0xFF213529)
YUV	45.6520, -2.2934, -11.0958
Hunter-Lab	17.2889, -6.8462, 3.4463

Details

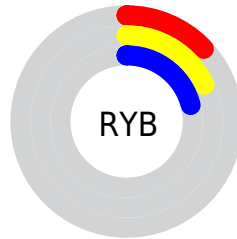
The CIELCh color **20, 12.318, 155.835** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **16, 12.596, 341.303**, and the grayscale version is **19, 0.003, 296.813**.

A 20% lighter version of the original color is **40, 12.578, 155.355**, and **0, 0.492, 144.443** is the 20% darker color. If you saturate the color by 10%, you get **20, 15.450, 154.875**, and if you desaturate by 10%, it is **20, 9.108, 156.695**.

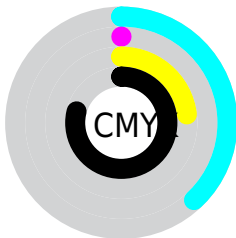
Distribution



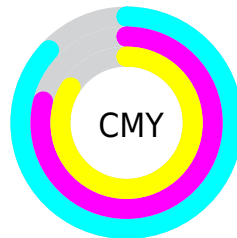
- Red (13%)
- Green (21%)
- Blue (16%)



- Red (13%)
- Yellow (18%)
- Blue (21%)



- Cyan (38%)
- Magenta (0%)
- Yellow (23%)
- Black (79%)



- Cyan (87%)
- Magenta (79%)
- Yellow (84%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 12.318, 155.835 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, 12.318, 155.835 by changing the saturation by 10% instead.

■ 20, 12.318,
155.835

■ 20, 12.318,
155.835

■ 100, 12.318,
155.835

■ 10, 12.318,
155.835

■ 40, 12.318,
155.835

■ 0, 12.318, 155.835

■ 50, 12.318,
155.835

■ 60, 12.318,
155.835

■ 70, 12.318,
155.835

■ 80, 12.318,
155.835

■ 90, 12.318,

155.835

■ 20, 12.318,
155.835

■ 20, 12.318,
155.835

■ 20, 15.450,
154.875

■ 20, 9.108, 156.695

■ 19, 18.461,
153.802

■ 21, 5.854, 157.473

■ 22, 2.589, 158.198

■ 19, 21.312,
152.601

■ 22, 0.661, 338.550

■ 19, 23.963,
151.262

■ 23, 3.875, 339.307

■ 23, 7.038, 339.850

■ 18, 26.448,
149.901

■ 24, 10.137,
340.342

■ 18, 28.944,
148.853

■ 25, 13.164,

■ 18, 29.453,
148.675

340.794

■ 26, 16.115,
341.215

Harmonies

Complementary

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



20, 12.318, 155.835



16, 12.596, 341.303

Rectangle

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



20, 12.318, 155.835



20, 12.318, 205.835



20, 12.318, 335.835



20, 12.318, 25.835

Sweetspot

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



20, 12.319, 155.834



28, 4.482, 157.938



21, 13.889, 123.881



14, 3.042, 157.921



67, 0.008, 296.813



14, 0.003, 296.813

Same Dimension

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



20, 12.319, 155.834



26, 18.545, 154.831



20, 8.657, 188.678



9, 1.748, 158.183



33, 43.823, 146.434



76, 87.119, 144.419

Inverse Universe

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



16, 12.596, 341.303



20, 19.027, 342.196



15, 10.336, 14.518



8, 1.760, 339.109



17, 41.168, 350.549



47, 77.147, 353.291

Previews

White Background



This preview shows how the CIELCh color 20, 12.318, 155.835 looks on a white background.

Color Contrast Check

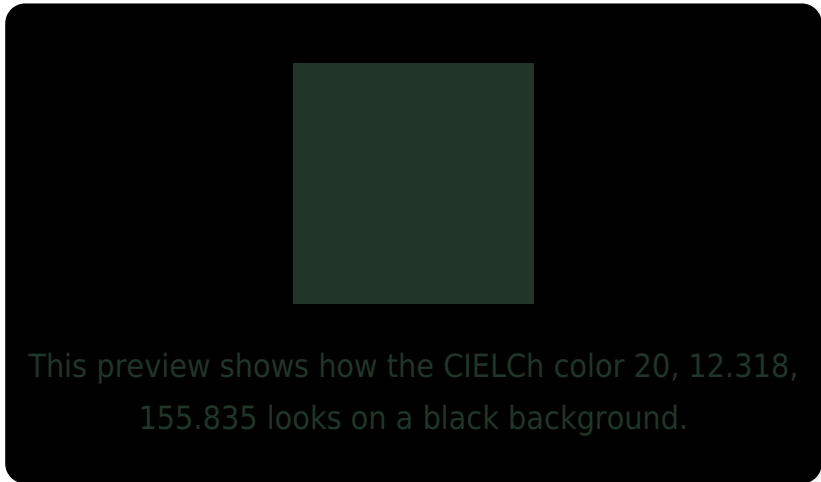
Large Text (above 18pt) WCAG AA ✓ Pass

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

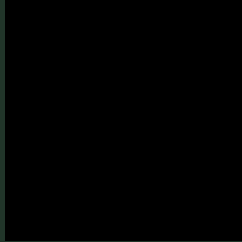
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 12.318, 155.835

Background



This preview shows how black text looks on a background with the CIELCh color 20, 12.318, 155.835.



This preview shows how white text looks on a background with the CIELCh color 20, 12.318, 155.835.

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

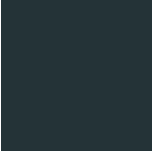
20, 12.318, 155.835

Protanopia

20, 6.936, 95.963

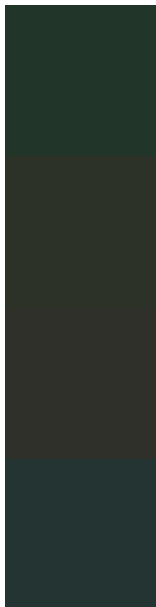
Deuteranopia

20, 5.248, 51.158



Tritanopia
20, 6.763, 222.219

Trichromacy



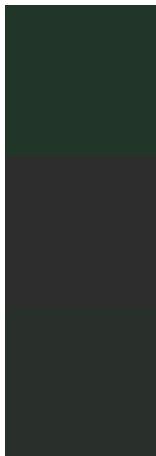
Original Color
20, 12.318, 155.835

Protanomaly
20, 8.006, 129.835

Deuteranomaly
20, 4.107, 115.966

Tritanomaly
20, 7.540, 187.516

Monochromacy



Original Color
20, 12.318, 155.835

Achromatopsia
18, 0.003, 296.813

Achromatomaly
19, 4.784, 152.891

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 12.318, 155.835 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(33, 53, 41)` looks like.

```
.text, #text, p{  
    color:rgb(33, 53, 41)  
}
```

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(33, 53, 41) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 53, 41) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 12.318, 155.835 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(33, 53, 41) }
```

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

```
.border{ border-color:rgb(33, 53, 41) }
```

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

Here you see how a box with a 4 pixel `rgb(33, 53, 41)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 53, 41); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 53, 41);  
box-shadow:4px 4px 4px 4px rgb(33, 53, 41)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 12.318, 155.835 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 53, 41) }
```

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

```
.background{ background-color: rgb(33, 53,  
41) }
```

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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