

Converting Colors

CIELCh(20, 13.332, 196.945)

Have a look what the booklet for
CIELCh(20, 13.332, 196.945)
contains.

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Color

CIELCh(20, 13.515, 196.937)

Conversions

Conversions Part 1

Format	Color
Hex	113636
RGB	17, 54, 54
RGB Percent	7%, 21%, 21%
CMY	0.9347, 0.7894, 0.7894
CMYK	0.69, 0.00, 0.00, 0.79
HSL	180°, 53%, 14%
HSV	180°, 69%, 21%
XYZ	2.1884, 2.9891, 3.9140
YIQ	42.9370, -22.0520, -7.8440

Conversions

Conversions Part 2

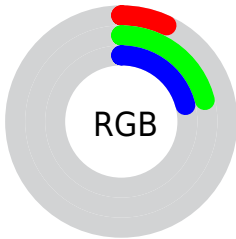
Format	Color
R_{YB}	17, 36, 54
Decimal	1127990
CIE _{Lab}	20.00, -12.93, -3.94
CIE _{LCh}	20, 13.515, 196.937
Yxy	2.9891, 0.2407, 0.3288
Android (android.graphics.Color)	4279318070 (0xFF113636)
YUV	42.9370, 5.4541, -22.7467
Hunter-Lab	17.2889, -7.6613, -1.3204

Details

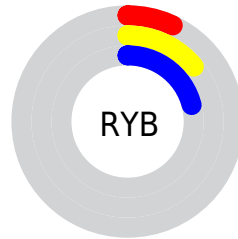
The CIELCh color **20, 13.515, 196.937** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **11, 20.623, 25.621**, and the grayscale version is **17, 0.003, 296.813**.

A 20% lighter version of the original color is **40, 13.448, 197.781**, and **0, 3.636, 285.805** is the 20% darker color. If you saturate the color by 10%, you get **20, 14.629, 196.740**, and if you desaturate by 10%, it is **20, 12.146, 197.179**.

Distribution



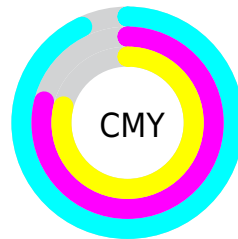
- Red (7%)
- Green (21%)
- Blue (21%)



- Red (7%)
- Yellow (14%)
- Blue (21%)



- Cyan (69%)
- Magenta (0%)
- Yellow (0%)
- Black (79%)





- Cyan (93%)
- Magenta (79%)
- Yellow (79%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 20, 13.515, 196.937 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, 13.515, 196.937 by changing the saturation by 10% instead.


 20, 13.515,
196.937


 20, 13.515,
196.937


 100, 13.515,
196.937


 10, 13.515,
196.937


 40, 13.515,
196.937

 0, 13.515, 196.937

 50, 13.515,
196.937

 60, 13.515,
196.937

 70, 13.515,
196.937

 80, 13.515,
196.937

 90, 13.515,

196.937

■ 20, 13.515,
196.937

■ 20, 13.515,
196.937

■ 20, 14.629,
196.740

■ 20, 12.146,
197.179

■ 20, 15.566,
196.577

■ 20, 10.537,
197.469

■ 20, 16.523,
196.411

■ 21, 8.709, 197.804

■ 20, 16.622,
196.394

■ 21, 6.688, 198.183

■ 22, 4.503, 198.605

■ 22, 2.181, 199.095

■ 23, 0.249, 18.577

■ 23, 2.764, 19.865

■ 24, 5.339, 20.407

Harmonies

Complementary

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



20, 13.515, 196.937



11, 20.623, 25.621

Rectangle

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



20, 13.515, 196.937



20, 13.515, 246.937



20, 13.515, 16.937



20, 13.515, 66.937

Sweetspot

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



20, 13.515, 196.935



28, 6.084, 198.473



19, 29.368, 139.415



13, 4.153, 198.446



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, 13.515, 196.935



26, 18.018, 196.618



13, 14.376, 267.439



10, 1.395, 199.128



35, 23.756, 196.395



80, 44.716, 196.396

Inverse Universe

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



12, 29.083, 327.383



15, 40.295, 327.869



16, 16.881, 67.861



9, 2.536, 324.804



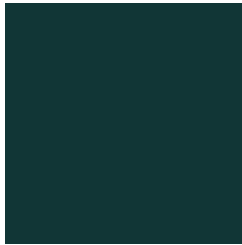
20, 54.784, 328.235



52, 103.121, 328.235

Previews

White Background



This preview shows how the CIELCh color 20, 13.515, 196.937 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



This preview shows how the CIELCh color 20, 13.515, 196.937 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

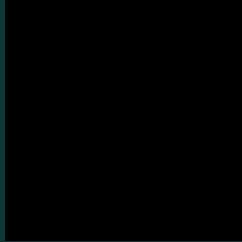
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 13.515, 196.937

Background



This preview shows how black text looks on a background with the CIELCh color 20, 13.515, 196.937.



This preview shows how white text looks on a background with the CIELCh color 20, 13.515, 196.937.

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, 13.515, 196.937

Protanopia
20, 1.447, 309.182

Deuteranopia
20, 5.640, 305.243



Tritanopia
20, 12.482, 209.984

Trichromacy



Original Color
20, 13.515, 196.937

Protanomaly
20, 5.680, 205.288

Deuteranomaly
20, 6.095, 241.213

Tritanomaly
20, 12.735, 206.485

Monochromacy



Original Color
20, 13.515, 196.937

Achromatopsia
18, 0.003, 296.813

Achromatomaly
18, 6.143, 198.179

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 13.515, 196.937 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(17, 54, 54)` looks like.

```
.text, #text, p{  
    color:rgb(17, 54, 54)  
}
```

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(17, 54, 54) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(17, 54, 54) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 13.515, 196.937 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(17, 54, 54) }
```

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

```
.border{ border-color:rgb(17, 54, 54) }
```

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

Here you see how a box with a 4 pixel rgb(17, 54, 54) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(17, 54, 54); -webkit-box-  
shadow:4px 4px 4px 4px rgb(17, 54, 54);  
box-shadow:4px 4px 4px 4px rgb(17, 54, 54)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 13.515, 196.937 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(17, 54, 54) }
```

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

```
.background{ background-color: rgb(17, 54,  
54) }
```

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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