

Converting Colors

CIELCh(20, 12.950, 201.858)

Have a look what the booklet for
CIELCh(20, 12.950, 201.858)
contains.

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Color

CIELCh(20, 12.790, 203.281)

Conversions

Conversions Part 1

Format	Color
Hex	123537
RGB	18, 53, 55
RGB Percent	7%, 21%, 22%
CMY	0.9279, 0.7908, 0.7830
CMYK	0.67, 0.04, 0.00, 0.78
HSL	183°, 50%, 14%
HSV	183°, 67%, 22%
XYZ	2.2433, 2.9891, 4.1163
YIQ	42.7630, -21.5020, -6.7980

Conversions

Conversions Part 2

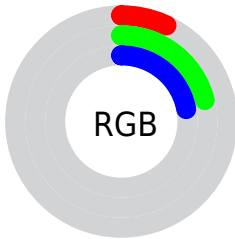
Format	Color
R_{YB}	18, 36, 55
Decimal	1193271
CIE _{Lab}	20.00, -11.75, -5.06
CIE _{LCh}	20, 12.790, 203.281
Yxy	2.9891, 0.2400, 0.3197
Android (android.graphics.Color)	4279383351 (0xFF123537)
YUV	42.7630, 6.0328, -21.7172
Hunter-Lab	17.2889, -7.0942, -2.0141

Details

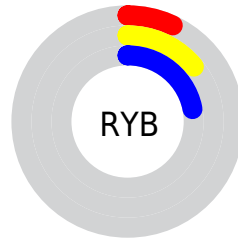
The CIELCh color **20, 12.790, 203.281** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **12, 19.755, 29.207**, and the grayscale version is **18, 0.003, 296.813**.

A 20% lighter version of the original color is **40, 13.021, 203.272**, and **0, 4.885, 290.178** is the 20% darker color. If you saturate the color by 10%, you get **20, 13.893, 203.465**, and if you desaturate by 10%, it is **20, 11.432, 203.200**.

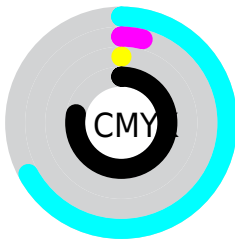
Distribution



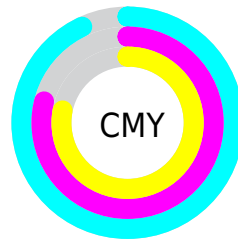
- Red (7%)
- Green (21%)
- Blue (22%)



- Red (7%)
- Yellow (14%)
- Blue (22%)



- Cyan (67%)
- Magenta (4%)
- Yellow (0%)
- Black (78%)





- Cyan (93%)
- Magenta (79%)
- Yellow (78%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 20, 12.790, 203.281 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, 12.790, 203.281 by changing the saturation by 10% instead.

 20, 12.790,
203.281


 20, 12.790,
203.281


 100, 12.790,
203.281


 10, 12.790,
203.281


 40, 12.790,
203.281

 0, 12.790, 203.281

 50, 12.790,
203.281

 60, 12.790,
203.281

 70, 12.790,
203.281

 80, 12.790,
203.281

 90, 12.790,

203.281

■ 20, 12.790,
203.281

■ 20, 12.790,
203.281

■ 20, 13.893,
203.465

■ 20, 11.432,
203.200

■ 19, 14.766,
203.746

■ 21, 9.837, 203.215

■ 19, 15.635,
203.984

■ 21, 8.029, 203.315

■ 22, 6.036, 203.490

■ 19, 15.923,
204.048

■ 22, 3.885, 203.736

■ 23, 1.605, 204.094

■ 23, 0.778, 23.980

■ 24, 3.242, 24.549

Harmonies

Complementary

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



20, 12.790, 203.281



12, 19.755, 29.207

Rectangle

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



20, 12.790, 203.281



20, 12.790, 253.281



20, 12.790, 23.281



20, 12.790, 73.281

Sweetspot

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



20, 12.790, 203.279



29, 5.671, 203.624



20, 28.377, 140.832



13, 3.785, 203.608



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, 12.790, 203.279



26, 17.140, 203.666



13, 15.317, 272.201



10, 1.322, 204.021



33, 22.216, 204.768



76, 41.614, 205.526

Inverse Universe

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



13, 27.992, 329.000



16, 39.061, 329.624



17, 17.080, 73.057



9, 2.444, 326.292



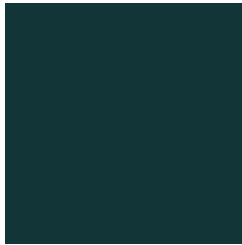
20, 52.661, 330.347



51, 98.797, 330.534

Previews

White Background



This preview shows how the CIELCh color 20, 12.790, 203.281 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, 12.790, 203.281 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

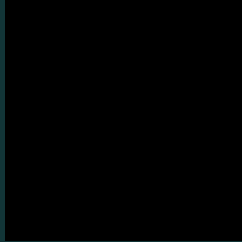
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

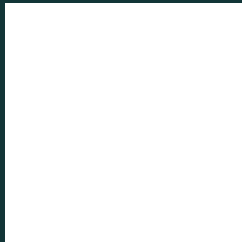
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 20, 12.790, 203.281

Background



This preview shows how black text looks on a background with the CIELCh color 20, 12.790, 203.281.



This preview shows how white text looks on a background with the CIELCh color 20, 12.790, 203.281.

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, 12.790, 203.281

Protanopia
20, 2.726, 290.835

Deuteranopia
20, 6.895, 299.108



Tritanopia
20, 12.482, 209.984

Trichromacy



Original Color
20, 12.790, 203.281

Protanomaly
20, 5.869, 218.951

Deuteranomaly
20, 6.525, 246.150

Tritanomaly
20, 12.496, 206.705

Monochromacy



Original Color
20, 12.790, 203.281

Achromatopsia
18, 0.003, 296.813

Achromatomaly
18, 5.739, 198.263

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 12.790, 203.281 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, 53, 55)` looks like.

```
.text, #text, p{  
    color:rgb(18, 53, 55)  
}
```

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, 53, 55) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(18, 53, 55) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 12.790, 203.281 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, 53, 55) }
```

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

```
.border{ border-color:rgb(18, 53, 55) }
```

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

Here you see how a box with a 4 pixel `rgb(18, 53, 55)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(18, 53, 55); -webkit-box-  
shadow:4px 4px 4px 4px rgb(18, 53, 55);  
box-shadow:4px 4px 4px 4px rgb(18, 53, 55)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 12.790, 203.281 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(18, 53, 55) }
```

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

```
.background{ background-color: rgb(18, 53,  
55) }
```

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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