

Converting Colors

CIELCh(10, 55.718, 312.799)

Have a look what the booklet for
CIELCh(10, 55.718, 312.799)
contains.

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Color

CIELCh(10, 55.175, 312.821)

Conversions

Conversions Part 1

Format	Color
Hex	2A0054
RGB	42, 0, 84
RGB Percent	16%, 0%, 33%
CMY	0.8358, 1.0000, 0.6711
CMYK	0.50, 1.00, 0.00, 0.67
HSL	270°, 100%, 16%
HSV	270°, 100%, 33%
XYZ	2.5444, 1.1260, 8.4465
YIQ	22.1340, -1.9320, 35.0280

Conversions

Conversions Part 2

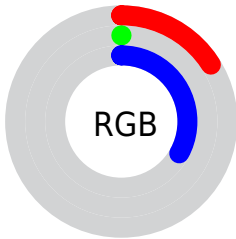
Format	Color
R_{YB}	42, 0, 84
Decimal	2752596
CIE _{Lab}	10.00, 37.50, -40.47
CIE _{LCh}	10, 55.175, 312.821
Yxy	1.1260, 0.2100, 0.0929
Android (android.graphics.Color)	4280942676 (0xFF2A0054)
YUV	22.1340, 30.4999, 17.4225
Hunter-Lab	10.6114, 24.2301, -39.7659

Details

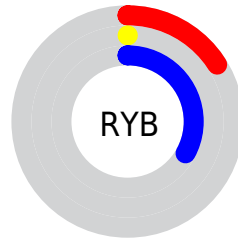
The CIELCh color **10, 55.175, 312.821** is a dark color, and the websafe version is hex **330066**. A complement of this color would be **31, 47.968, 126.664**, and the grayscale version is **7, 0.002, 296.812**.

A 20% lighter version of the original color is **30, 55.177, 312.826**, and **2, 22.473, 291.076** is the 20% darker color. If you saturate the color by 10%, you get **10, 55.130, 312.806**, and if you desaturate by 10%, it is **12, 50.485, 312.549**.

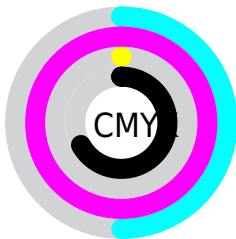
Distribution



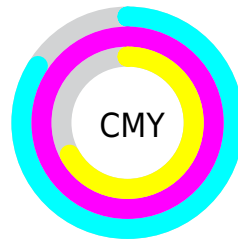
- Red (16%)
- Green (0%)
- Blue (33%)



- Red (16%)
- Yellow (0%)
- Blue (33%)



- Cyan (50%)
- Magenta (100%)
- Yellow (0%)
- Black (67%)





- Cyan (84%)
- Magenta (100%)
- Yellow (67%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 10, 55.175, 312.821 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 10, 55.175, 312.821 by changing the saturation by 10% instead.


 10, 55.175,
312.821


 10, 55.175,
312.821


 100, 55.175,
312.821


 0, 55.175, 312.821

 30, 55.175,
312.821

 40, 55.175,
312.821


 50, 55.175,
312.821


 60, 55.175,
312.821


 70, 55.175,
312.821


 80, 55.175,


312.821

 90, 55.175,
312.821


 10, 55.175,
312.821


 10, 55.175,
312.821


 10, 55.130,
312.806

 12, 50.485,
312.549

 14, 46.077,
312.488

 16, 40.881,
312.223

 19, 35.189,
311.825

 21, 29.251,
311.355

■ 24, 23.237,
310.858

■ 27, 17.255,
310.362

■ 30, 11.368,
309.887

■ 33, 5.612, 309.438

Harmonies

Complementary

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



10, 55.175, 312.821



31, 47.968, 126.664

Rectangle

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



10, 55.175, 312.821



10, 55.175, 2.821



10, 55.175, 132.821



10, 55.175, 182.821

Sweetspot

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



10, 55.130, 312.806



35, 21.550, 310.414



17, 28.801, 278.180



16, 14.861, 310.540



75, 0.009, 296.813



24, 0.004, 296.813

Same Dimension

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



10, 55.130, 312.806



15, 66.691, 312.416



18, 51.515, 327.626



15, 3.060, 309.380



14, 64.445, 312.479



37, 116.395, 311.715

Inverse Universe

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



16, 38.086, 358.268



22, 45.724, 359.756



30, 53.231, 135.845



15, 2.465, 344.211



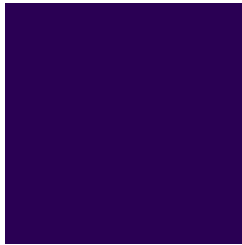
21, 44.237, 359.511



50, 78.837, 2.617

Previews

White Background



This preview shows how the CIE LCh color 10, 55.175, 312.821 looks on a white background.

Color Contrast Check

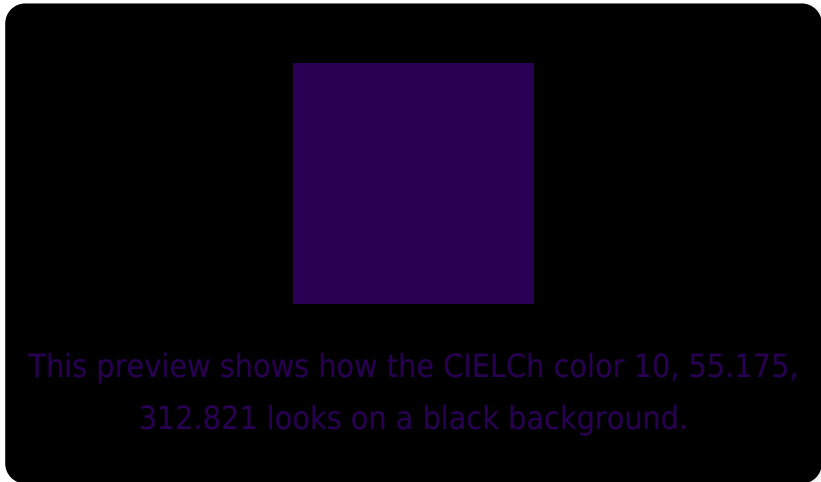
Large Text (above 18pt) WCAG AA ✓ Pass

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

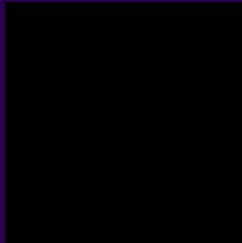
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 10, 55.175, 312.821

Background



This preview shows how black text looks on a background with the CIELCh color 10, 55.175, 312.821.



This preview shows how white text looks on a background with the CIELCh color 10, 55.175, 312.821.

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

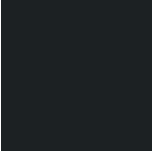
10, 55.175, 312.821

Protanopia

12, 25.143, 280.179

Deuteranopia

12, 18.318, 265.390



Tritanopia
12, 2.734, 230.979

Trichromacy



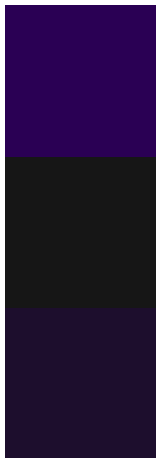
Original Color
10, 55.175, 312.821

Protanomaly
10, 37.873, 299.105

Deuteranomaly
9, 33.054, 297.248

Tritanomaly
10, 23.951, 307.882

Monochromacy



Original Color
10, 55.175, 312.821

Achromatopsia
7, 0.002, 296.812

Achromatomaly
7, 23.742, 311.154

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 10, 55.175, 312.821 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(42, 0, 84)` looks like.

```
.text, #text, p{  
    color:rgb(42, 0, 84)  
}
```

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(42, 0, 84) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(42, 0, 84) }
```

Border

The CSS property to change the border of an element to CIELCh 10, 55.175, 312.821 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(42, 0, 84) }
```

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

```
.border{ border-color:rgb(42, 0, 84) }
```

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

Here you see how a box with a 4 pixel `rgb(42, 0, 84)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(42, 0, 84); -webkit-box-shadow:4px  
4px 4px 4px rgb(42, 0, 84); box-shadow:4px  
4px 4px 4px rgb(42, 0, 84) }
```

Background

The CSS property to change the background color of an element to CIELCh 10, 55.175, 312.821 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(42, 0, 84) }
```

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

```
.background{ background-color: rgb(42, 0,  
84) }
```

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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