

Converting Colors

CIELCh(13, 22.187, 288.660)

Have a look what the booklet for
CIELCh(13, 22.187, 288.660)
contains.

CIELCh(13, 22.260, 288.734)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(13, 22.260, 288.734)

Conversions

Conversions Part 1

Format	Color
Hex	17203F
RGB	23, 32, 63
RGB Percent	9%, 13%, 25%
CMY	0.9105, 0.8751, 0.7536
CMYK	0.64, 0.49, 0.00, 0.75
HSL	226°, 47%, 17%
HSV	226°, 64%, 25%
XYZ	1.7548, 1.5625, 4.8879
YIQ	32.8430, -15.3150, 7.7330

Conversions

Conversions Part 2

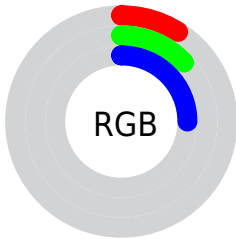
Format	Color
R_{YB}	23, 30, 63
Decimal	1515583
CIE Lab	13.00, 7.15, -21.08
CIE LCh	13, 22.260, 288.734
Yxy	1.5625, 0.2139, 0.1904
Android (android.graphics.Color)	4279705663 (0xFF17203F)
YUV	32.8430, 14.8674, -8.6323
Hunter-Lab	12.5000, 3.1833, -14.4344

Details

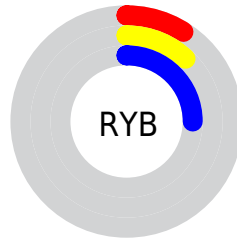
The CIELCh color **13, 22.260, 288.734** is a dark color, and the websafe version is hex **003366**. A complement of this color would be **23, 20.707, 91.994**, and the grayscale version is **13, 0.003, 296.813**.

A 20% lighter version of the original color is **33, 22.078, 288.404**, and **1, 8.250, 288.252** is the 20% darker color. If you saturate the color by 10%, you get **11, 26.128, 291.124**, and if you desaturate by 10%, it is **15, 18.504, 286.589**.

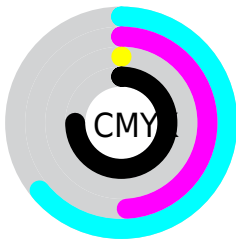
Distribution



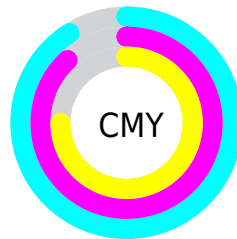
- Red (9%)
- Green (13%)
- Blue (25%)



- Red (9%)
- Yellow (12%)
- Blue (25%)



- Cyan (64%)
- Magenta (49%)
- Yellow (0%)
- Black (75%)





- Cyan (91%)
- Magenta (88%)
- Yellow (75%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 22.260, 288.734 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 13, 22.260, 288.734 by changing the saturation by 10% instead.

 13, 22.260,
288.734


 13, 22.260,
288.734


 100, 22.260,
288.734


 3, 22.260, 288.734


 33, 22.260,
288.734

 0, 22.260, 288.734

 43, 22.260,
288.734

 53, 22.260,
288.734

 63, 22.260,
288.734

 73, 22.260,
288.734

 83, 22.260,

288.734

■ 93, 22.260,
288.734

■ 13, 22.260,
288.734

■ 13, 22.260,
288.734

■ 11, 26.128,
291.124

■ 15, 18.504,
286.589

■ 9, 30.094, 293.719

■ 17, 14.856,
284.692

■ 7, 34.028, 295.960

■ 19, 11.309,
283.030

■ 6, 36.125, 296.557

■ 22, 7.853, 281.580

■ 24, 4.483, 280.320

■ 26, 1.191, 279.258

■ 28, 2.026, 98.185

■ 30, 5.170, 97.351

■ 32, 8.247, 96.599

Harmonies

Complementary

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



13, 22.260, 288.734



23, 20.707, 91.994

Rectangle

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



13, 22.260, 288.734



13, 22.260, 338.734



13, 22.260, 108.734



13, 22.260, 158.734

Sweetspot

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



13, 22.260, 288.735



30, 7.803, 281.076



24, 16.853, 174.856



13, 5.286, 281.219



69, 0.009, 296.813



16, 0.003, 296.813

Same Dimension

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



13, 22.260, 288.735



15, 33.780, 292.573



11, 29.179, 305.202



10, 1.771, 279.727



12, 51.574, 299.552



33, 103.449, 301.886

Inverse Universe

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



14, 20.885, 9.559



17, 30.630, 13.603



25, 25.565, 117.330



10, 1.648, 1.917



18, 42.920, 23.365



47, 82.774, 28.202

Previews

White Background



This preview shows how the CIE LCh color 13, 22.260, 288.734 looks on a white background.

Color Contrast Check

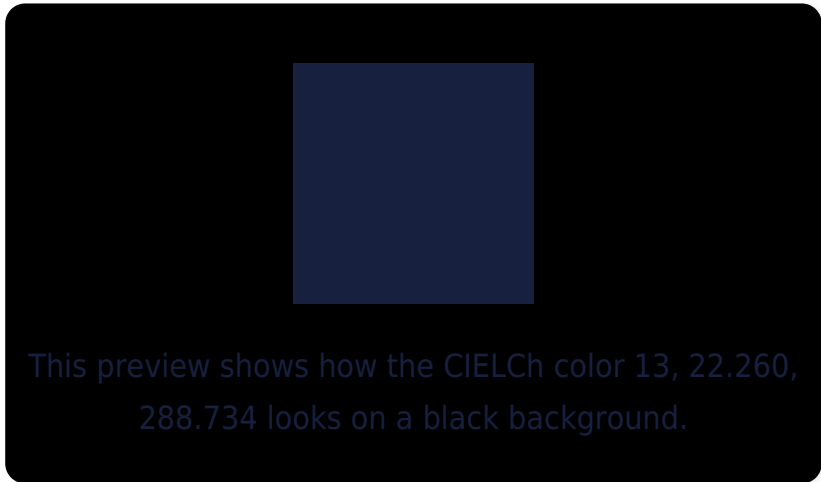
Large Text (above 18pt) WCAG AA ✓ Pass

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

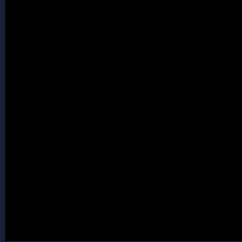
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 13, 22.260, 288.734

Background



This preview shows how black text looks on a background with the CIELCh color 13, 22.260, 288.734.



This preview shows how white text looks on a background with the CIELCh color 13, 22.260, 288.734.

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

13, 22.260, 288.734

Protanopia

13, 22.431, 283.888

Deuteranopia

12, 20.675, 270.540



Tritanopia
13, 10.308, 209.397

Trichromacy



Original Color
13, 22.260, 288.734

Protanomaly
13, 22.353, 285.110

Deuteranomaly
13, 21.483, 277.581

Tritanomaly
13, 11.490, 253.612

Monochromacy



Original Color
13, 22.260, 288.734

Achromatopsia
13, 0.003, 296.813

Achromatomaly
13, 8.051, 280.103

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 13, 22.260, 288.734 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(23, 32, 63)` looks like.

```
.text, #text, p{  
    color:rgb(23, 32, 63)  
}
```

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(23, 32, 63) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(23, 32, 63) }
```

Border

The CSS property to change the border of an element to CIELCh 13, 22.260, 288.734 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(23, 32, 63) }
```

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

```
.border{ border-color:rgb(23, 32, 63) }
```

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

Here you see how a box with a 4 pixel `rgb(23, 32, 63)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(23, 32, 63); -webkit-box-  
shadow:4px 4px 4px 4px rgb(23, 32, 63);  
box-shadow:4px 4px 4px 4px rgb(23, 32, 63)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 13, 22.260, 288.734 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(23, 32, 63) }
```

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

```
.background{ background-color: rgb(23, 32,  
63) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor