

# Converting Colors

XYZ(39.9926, 59.6854, 72.8362)

Have a look what the booklet for  
XYZ(39.9926, 59.6854, 72.8362)  
contains.

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# Color

**XYZ(39.9612, 59.5711,  
73.0105)**

# Conversions

## Conversions Part 1

Format	Color
Hex	21E2D6
RGB	33, 226, 214
RGB Percent	13%, 89%, 84%
CMY	0.8705, 0.1137, 0.1608
CMYK	0.85, 0.00, 0.05, 0.11
HSL	176°, 77%, 51%
HSV	176°, 85%, 89%
XYZ	39.9612, 59.5711, 73.0105
YIQ	166.9250, -111.1760, -44.6480

# Conversions

## Conversions Part 2

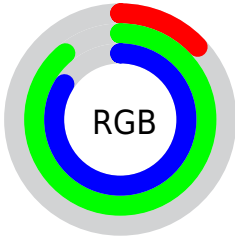
Format	Color
R <sub>YB</sub>	33, 133, 226
Decimal	2220758
CIE <sub>Lab</sub>	81.60, -46.14, -6.77
CIE <sub>LCh</sub>	82, 46.630, 188.348
Yxy	59.5711, 0.2316, 0.3453
Android (android.graphics.Color)	4280410838 (0xFF21E2D6)
YUV	166.9250, 23.2080, -117.4522
Hunter-Lab	77.1823, -42.6506, -2.0577

# Details

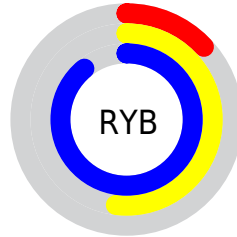
The XYZ color **39.9612, 59.5711, 73.0105** is a light color, and the websafe version is hex **00CCCC**. The color can be described as light washed cyan. A complement of this color would be **32.3836, 17.4479, 4.1460**, and the grayscale version is **36.6273, 38.5348, 41.9643**.

A 20% lighter version of the original color is **61.4177, 82.6619, 107.3260**, and **20.6327, 31.2527, 37.7458** is the 20% darker color. If you saturate the color by 10%, you get **39.2868, 59.2454, 72.0472**, and if you desaturate by 10%, it is **41.1252, 60.1517, 74.0075**.

# Distribution



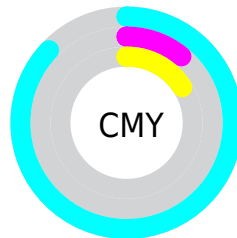
- Red (13%)
- Green (89%)
- Blue (84%)



- Red (13%)
- Yellow (52%)
- Blue (89%)



- Cyan (85%)
- Magenta (0%)
- Yellow (5%)
- Black (11%)




- Cyan (87%)
- Magenta (11%)
- Yellow (16%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 39.9612, 59.5711, 73.0105 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 XYZ color 39.9612, 59.5711, 73.0105 by changing the saturation by 10% instead.





 39.9612, 59.5711,  
73.0105


 39.9612, 59.5711,  
73.0105


337.0972,  
423.0151, 490.1230


 27.6924, 43.0730,  
53.4927


 74.3891, 104.2072,  
125.2132


 18.2332, 29.9424,  
37.8058


 97.2790, 133.1141,  
158.7351


 11.2182, 19.7949,  
25.5313


 124.4398,  
166.9260, 197.7621

 6.2822, 12.2460,  
16.2507

 156.2371,  
206.0273, 242.7128

 3.0597, 6.9115,  
9.5455

 193.0361,  
250.8025, 294.0057

 1.1854, 3.4068,  
4.9970

235.2022,

 0.0948, 1.3476,

301.6359, 352.0593

2.1868

283.1008,  
358.9120, 417.2922

■ 0.0000, 0.1776,  
0.6667

■ 0.0000, 0.0000,  
0.0000

■ 39.9612, 59.5711,  
73.0105

■ 39.9612, 59.5711,  
73.0105

■ 39.2868, 59.2454,  
72.0472

■ 41.1252, 60.1517,  
74.0075

■ 39.0744, 59.1454,  
71.6097

■ 42.8574, 61.0237,  
75.0379

■ 45.2277, 62.2244,  
76.1062

■ 48.2948, 63.7841,  
77.2153

■ 52.1105, 65.7297,  
78.3677

■ 56.7220, 68.0853,  
79.5654

■ 62.1724, 70.8731,  
80.8106

■ 68.5018, 74.1139,  
82.1052

■ 75.7476, 77.8270,  
83.4509

# Harmonies

## Analogous

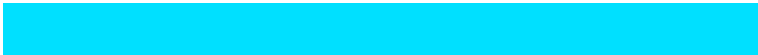
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



40.8627, 59.5711, 46.9334



39.9612, 59.5711, 73.0105



43.1017, 59.5711, 104.3971

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



39.9612, 59.5711, 73.0105



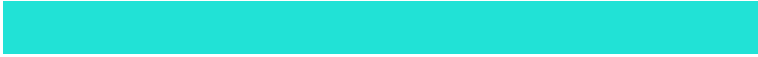
69.1232, 59.5711, 117.0036



63.8549, 59.5711, 26.5468

# Complementary

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



39.9612, 59.5711, 73.0105



32.3836, 17.4479, 4.1460

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



72.7062, 59.5711, 36.8311



39.9612, 59.5711, 73.0105



75.9836, 59.5711, 86.8600

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



39.9612, 59.5711, 73.0105



59.3983, 59.5711, 134.1723



77.3653, 59.5711, 57.3450



53.9308, 59.5711, 24.8043

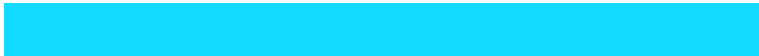


# Rectangle

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



39.9612, 59.5711, 73.0105



47.3045, 59.5711, 122.4390



77.3653, 59.5711, 57.3450



67.0858, 59.5711, 28.9393

# Sweetspot

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



39.9630, 59.5733, 73.0119



74.0651, 89.2578, 104.4898



28.5937, 55.0827, 10.5654



15.3806, 18.8634, 22.2464



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

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



39.9630, 59.5733, 73.0119



51.3609, 77.7603, 94.0730



24.0852, 25.2735, 75.5628



14.0778, 15.5569, 17.4451



22.3077, 33.7479, 40.9391



1.5576, 2.3437, 2.8972



# Inverse Universe

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



32.3836, 17.4479, 4.1460



41.3325, 21.2970, 2.4170



37.9601, 28.9197, 5.0218



13.7416, 13.7143, 14.4096



17.9533, 9.2483, 1.1537

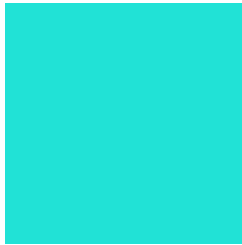


1.2568, 0.6460, 0.1450



# Previews

## White Background



This preview shows how the XYZ color 39.9612, 59.5711, 73.0105 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

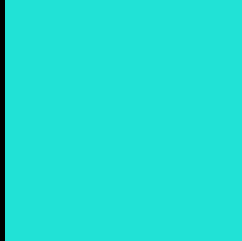
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 39.9612, 59.5711, 73.0105 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

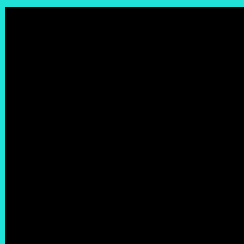
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

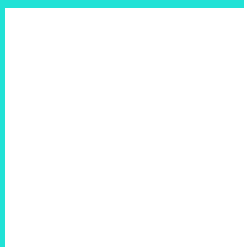
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 39.9612, 59.5711, 73.0105**

## **Background**



This preview shows how black text looks on a background with the XYZ color 39.9612, 59.5711, 73.0105.



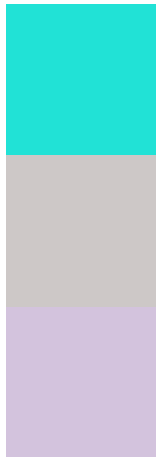
This preview shows how white text looks on a background with the XYZ color 39.9612, 59.5711,



# 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

39.9612, 59.5711, 73.0105

### Protanopia

56.1399, 58.4112, 62.3484

### Deuteranopia

59.4302, 58.0996, 76.4886



## Tritanopia

43.6531, 59.4636, 91.6149

# Trichromacy



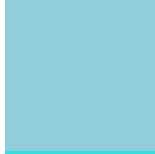
## Original Color

39.9612, 59.5711, 73.0105



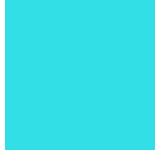
## Protanomaly

44.8549, 55.7113, 65.5160



## Deuteranomaly

46.5803, 55.3156, 74.5516



## Tritanomaly

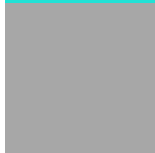
42.1269, 59.2230, 84.8122

# Monochromacy



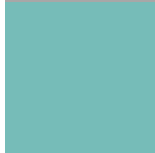
## Original Color

39.9612, 59.5711, 73.0105



## Achromatopsia

36.7301, 38.6429, 42.0822



## Achromatomaly

34.1062, 43.2787, 51.9034

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 39.9612, 59.5711, 73.0105 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, 226, 214)` looks like.

```
.text, #text, p{  
    color:rgb(33, 226, 214)  
}
```

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, 226, 214) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 226, 214) }
```

## Border

The CSS property to change the border of an element to XYZ 39.9612, 59.5711, 73.0105 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, 226, 214) }
```



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

```
.border{ border-color:rgb(33, 226, 214) }
```

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

Here you see how a box with a 4 pixel rgb(33, 226, 214) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 226, 214); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 226, 214);  
box-shadow:4px 4px 4px 4px rgb(33, 226,  
214) }
```

# Background

The CSS property to change the background color of an element to XYZ 39.9612, 59.5711, 73.0105 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 226, 214) }
```

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

```
.background{ background-color: rgb(33, 226,  
214) }
```

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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