

# Converting Colors

XYZ(10.9200, 29.0808, 38.7503)

Have a look what the booklet for  
XYZ(10.9200, 29.0808, 38.7503)  
contains.

<b>XYZ(22.7543, 35.2157, 39.3163)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(22.7543, 35.2157,  
39.3163)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00B4A1
RGB	0, 180, 161
RGB Percent	0%, 71%, 63%
CMY	0.9999, 0.2941, 0.3686
CMYK	1.00, 0.00, 0.11, 0.29
HSL	174°, 100%, 35%
HSV	174°, 100%, 71%
XYZ	22.7543, 35.2157, 39.3163
YIQ	124.0140, -101.1810, -44.0690

# Conversions

## Conversions Part 2

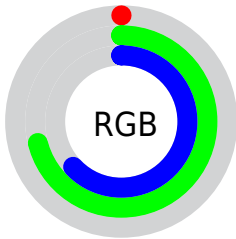
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 95, 180
Decimal	46241
CIELab	65.92, -42.62, -1.18
CIELCh	66, 42.639, 181.591
Yxy	35.2157, 0.2339, 0.3620
Android (android.graphics.Color)	4278236321 (0xFF00B4A1)
YUV	124.0140, 18.2341, -108.7603
Hunter-Lab	59.3428, -35.4062, 2.2587

# Details

The XYZ color **22.7543, 35.2157, 39.3163** is a dark color, and the websafe version is hex **00CCCC**. A complement of this color would be **18.9411, 9.7514, 1.5014**, and the grayscale version is **19.1315, 20.1278, 21.9192**.

A 20% lighter version of the original color is **47.6086, 68.0676, 75.5949**, and **10.2753, 16.0475, 17.3078** is the 20% darker color. If you saturate the color by 10%, you get **22.7547, 35.2167, 39.3157**, and if you desaturate by 10%, it is **23.1739, 35.4133, 40.2183**.

# Distribution



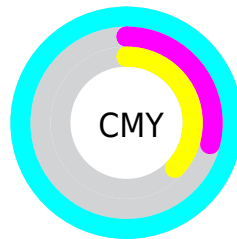
- Red (0%)
- Green (71%)
- Blue (63%)



- Red (0%)
- Yellow (37%)
- Blue (71%)



- Cyan (100%)
- Magenta (0%)
- Yellow (11%)
- Black (29%)




- Cyan (100%)
- Magenta (29%)
- Yellow (37%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 22.7543, 35.2157, 39.3163 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 22.7543, 35.2157, 39.3163 by changing the saturation by 10% instead.





 22.7543, 35.2157,  
39.3163


 22.7543, 35.2157,  
39.3163


259.0195,  
325.5194, 358.6994


 14.5319, 23.8291,  
26.6962

 47.4592, 67.8198,  
75.3469


 8.5757, 15.2069,  
17.1147


 64.6724, 89.8060,  
99.5945


 4.5203, 8.9647,  
10.1535


 85.6132, 116.0943,  
128.5549

 2.0005, 4.7182,  
5.3939

 110.6471,  
147.0689, 162.6468

 0.6343, 2.0829,  
2.4174

 140.1393,  
183.1144, 202.2887

 0.0000, 0.6550,  
0.7959

 174.4552,

 0.0000, 0.0000,

224.6150, 247.8990

0.0000

213.9601,  
271.9552, 299.8964

■ 22.7543, 35.2157,  
39.3163

■ 22.7543, 35.2157,  
39.3163

■ 22.7547, 35.2167,  
39.3157

■ 23.1739, 35.4133,  
40.2183

■ 23.8240, 35.7286,  
41.1437

■ 24.7924, 36.2077,  
42.0974

■ 26.1208, 36.8722,  
43.0814

■ 27.8447, 37.7402,  
44.0975

■ 29.9952, 38.8278,  
45.1471

■ 32.6003, 40.1495,  
46.2316

■ 35.6857, 41.7185,  
47.3523

■ 39.2751, 43.5469,  
48.5103

# Harmonies

## Analogous

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



23.8984, 35.2157, 24.0810



22.7543, 35.2157, 39.3163



24.1683, 35.2157, 59.5655

# Triad

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



22.7543, 35.2157, 39.3163



40.2342, 35.2157, 76.1856



39.5785, 35.2157, 15.1910

# Complementary

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



22.7543, 35.2157, 39.3163



18.9411, 9.7514, 1.5014

# 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.



44.8996, 35.2157, 22.8768



22.7543, 35.2157, 39.3163



45.3104, 35.2157, 57.3532

# Square

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



22.7543, 35.2157, 39.3163



33.8093, 35.2157, 84.5896



47.1151, 35.2157, 37.3877



33.1359, 35.2157, 13.0514



# Rectangle

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



22.7543, 35.2157, 39.3163



26.4889, 35.2157, 72.5027



47.1151, 35.2157, 37.3877



41.5845, 35.2157, 17.0609

# Sweetspot

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



22.7553, 35.2170, 39.3171



58.8378, 72.6592, 83.7193



16.6318, 32.8034, 5.4560



12.2753, 15.4801, 17.9171



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787



# Same Dimension

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



22.7553, 35.2170, 39.3171



41.2058, 63.8326, 71.0119



13.9247, 14.6673, 45.2786



8.7032, 9.6158, 10.6968



15.8956, 24.5842, 27.5167



0.5112, 0.7779, 0.9238



# Inverse Universe

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



18.9411, 9.7514, 1.5014



34.3020, 17.6633, 2.5081



20.9525, 13.9623, 1.5915



8.5316, 8.5194, 9.0320



13.2315, 6.8102, 1.1134

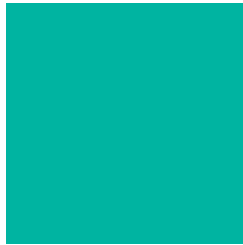


0.4281, 0.2190, 0.0970



# Previews

## White Background



This preview shows how the XYZ color 22.7543, 35.2157, 39.3163 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

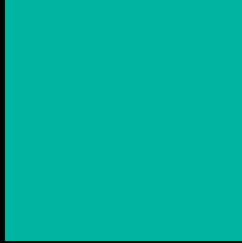
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 22.7543, 35.2157, 39.3163 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

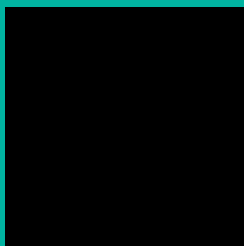
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

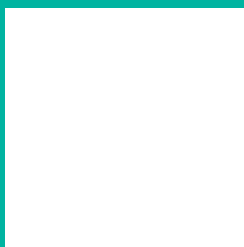
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 22.7543, 35.2157, 39.3163**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.7543, 35.2157, 39.3163.



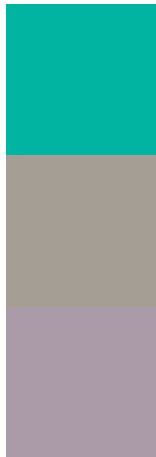
This preview shows how white text looks on a background with the XYZ color 22.7543, 35.2157,



# 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

22.7543, 35.2157, 39.3163

### Protanopia

32.9615, 34.5162, 33.3588

### Deuteranopia

35.3252, 34.5591, 41.3680



## Tritanopia

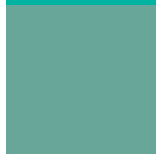
25.9463, 35.3492, 54.1708

# Trichromacy



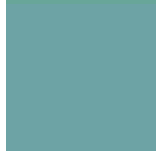
## Original Color

22.7543, 35.2157, 39.3163



## Protanomaly

25.0949, 32.5154, 35.0905



## Deuteranomaly

26.1954, 32.1622, 40.4246



## Tritanomaly

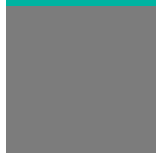
24.3655, 34.9602, 48.1116

# Monochromacy



## Original Color

22.7543, 35.2157, 39.3163



## Achromatopsia

19.1579, 20.1556, 21.9495



## Achromatomaly

17.7131, 23.4149, 27.2529

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.7543, 35.2157, 39.3163 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(0, 180, 161)` looks like.

```
.text, #text, p{  
    color:rgb(0, 180, 161)  
}
```

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(0, 180, 161) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 180, 161) }
```

## Border

The CSS property to change the border of an element to XYZ 22.7543, 35.2157, 39.3163 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(0, 180, 161) }
```



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

```
.border{ border-color:rgb(0, 180, 161) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 180, 161)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 180, 161); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 180, 161);  
box-shadow:4px 4px 4px 4px rgb(0, 180,  
161) }
```

# Background

The CSS property to change the background color of an element to XYZ 22.7543, 35.2157, 39.3163 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 180, 161) }
```

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

```
.background{ background-color: rgb(0, 180,  
161) }
```

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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