

# Converting Colors

XYZ(37.4442, 51.3519, 78.9807)

Have a look what the booklet for  
XYZ(37.4442, 51.3519, 78.9807)  
contains.

<b>XYZ(37.4131, 51.2010, 79.1451)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(37.4131, 51.2010,  
79.1451)**

# Conversions

## Conversions Part 1

Format	Color
Hex	31D0E1
RGB	49, 208, 225
RGB Percent	19%, 82%, 88%
CMY	0.8078, 0.1843, 0.1176
CMYK	0.78, 0.08, 0.00, 0.12
HSL	186°, 75%, 54%
HSV	186°, 78%, 88%
XYZ	37.4131, 51.2010, 79.1451
YIQ	162.3970, -100.2210, -28.4210

# Conversions

## Conversions Part 2

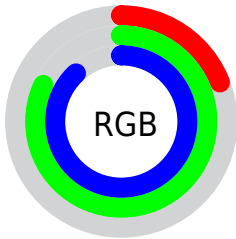
Format	Color
R <sub>Y</sub> B	49, 133, 225
Decimal	3264737
CIE Lab	76.80, -33.57, -19.82
CIE LCh	77, 38.983, 210.566
Yxy	51.2010, 0.2230, 0.3052
Android (android.graphics.Color)	4281454817 (0xFF31D0E1)
YUV	162.3970, 30.8633, -99.4492
Hunter-Lab	71.5549, -31.8907, -15.4908

# Details

The XYZ color **37.4131, 51.2010, 79.1451** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light washed cyan. A complement of this color would be **33.5554, 20.1275, 5.0237**, and the grayscale version is **34.4247, 36.2175, 39.4409**.

A 20% lighter version of the original color is **62.2674, 83.1000, 107.3658**, and **18.6469, 25.6847, 42.0051** is the 20% darker color. If you saturate the color by 10%, you get **36.0604, 49.7235, 78.9322**, and if you desaturate by 10%, it is **39.3173, 52.9757, 79.3883**.

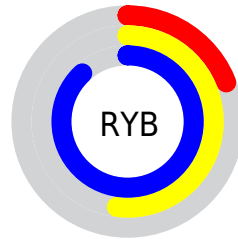
# Distribution



Red (19%)

Green (82%)

Blue (88%)



Red (19%)

Yellow (52%)

Blue (88%)

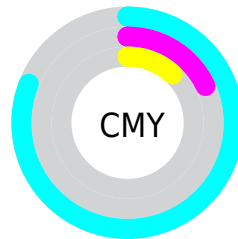


Cyan (78%)

Magenta (8%)

Yellow (0%)

Black (12%)



Cyan (81%)

Magenta (18%)

Yellow (12%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.4131, 51.2010, 79.1451 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 37.4131, 51.2010, 79.1451 by changing the saturation by 10% instead.



37.4131, 51.2010,  
79.1451

37.4131, 51.2010,  
79.1451

326.4201,  
391.3442, 511.6777

25.7026, 36.3686,  
58.4931

70.5174, 91.9518,  
133.9636

16.7328, 24.7190,  
41.7879

92.6419, 118.6390,  
168.9672

10.1383, 15.8678,  
28.6109

118.9686,  
150.0466, 209.5918

5.5537, 9.4307,  
18.5436

149.8626,  
186.5590, 256.2558

2.6137, 5.0231,  
11.1675

185.6894,  
228.5605, 309.3779

0.9530, 2.2608,  
6.0640

226.8144,

0.0000, 0.7529,

276.4357, 369.3765

2.8146

273.6028,  
330.5688, 436.6703

■ 0.0000, 0.0000,  
1.0008

■ 0.0000, 0.0000,  
0.0000

■ 37.4131, 51.2010,  
79.1451

■ 37.4131, 51.2010,  
79.1451

■ 36.0604, 49.7235,  
78.9322

■ 39.3173, 52.9757,  
79.3883


■ 35.1524, 48.4849,  
78.7410


■ 41.8393, 55.0787,  
79.6612


■ 35.0103, 48.2753,  
78.7080


■ 45.0409, 57.5429,  
79.9681


■ 48.9753, 60.3957,  
80.3114

 53.6901, 63.6618,  
80.6934

 59.2292, 67.3639,  
81.1160

 65.6330, 71.5227,  
81.5812

 72.9392, 76.1578,  
82.0908

 81.1834, 81.2876,  
82.6464

# Harmonies

## Analogous

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



35.7788, 51.2010, 56.1529



37.4131, 51.2010, 79.1451



42.0025, 51.2010, 99.3019

# Triad

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



37.4131, 51.2010, 79.1451



62.1384, 51.2010, 78.2672



48.5245, 51.2010, 24.1233

# Complementary

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



37.4131, 51.2010, 79.1451



33.5554, 20.1275, 5.0237

# 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.



55.9973, 51.2010, 27.2579



37.4131, 51.2010, 79.1451



64.3243, 51.2010, 55.3474

# Square

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



37.4131, 51.2010, 79.1451



56.2652, 51.2010, 98.7113



61.9731, 51.2010, 37.4884



41.7821, 51.2010, 27.5086

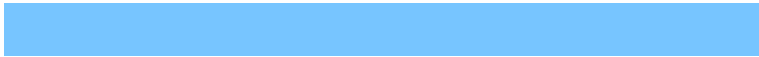


# Rectangle

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



37.4131, 51.2010, 79.1451



46.3700, 51.2010, 106.3828



61.9731, 51.2010, 37.4884



51.0346, 51.2010, 24.4388

# Sweetspot

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



37.4147, 51.2029, 79.1463



74.8855, 86.9615, 107.4461



29.1092, 54.8710, 13.8598



15.4713, 18.2387, 22.9549



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.



37.4147, 51.2029, 79.1463



47.0657, 64.9517, 104.6640



21.8597, 20.0928, 73.9613



13.9975, 15.3341, 17.6097



20.2220, 27.9135, 45.3704



1.4350, 2.0014, 3.1559



# Inverse Universe

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



43.5362, 22.7598, 61.7750



55.9590, 27.4277, 78.5753



42.7817, 38.5802, 8.0991



14.2350, 13.9116, 17.0075



24.1473, 11.7259, 33.7712

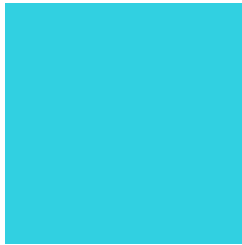


1.6906, 0.8195, 2.4294



# Previews

## White Background



This preview shows how the XYZ color 37.4131, 51.2010, 79.1451 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

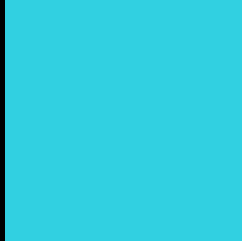
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.4131, 51.2010, 79.1451 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

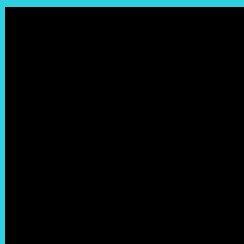
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

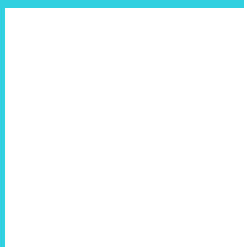
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 37.4131, 51.2010, 79.1451

## Background



This preview shows how black text looks on a background with the XYZ color 37.4131, 51.2010, 79.1451.



This preview shows how white text looks on a background with the XYZ color 37.4131, 51.2010,



# 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

37.4131, 51.2010, 79.1451

### Protanopia

49.5358, 50.5581, 68.7759

### Deuteranopia

51.4310, 50.3084, 81.8627



## Tritanopia

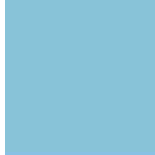
37.4131, 51.2010, 79.1451

# Trichromacy



## Original Color

37.4131, 51.2010, 79.1451



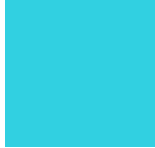
## Protanomaly

42.0631, 49.2223, 72.2496



## Deuteranomaly

43.2269, 48.9756, 80.5737



## Tritanomaly

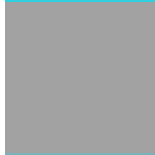
37.4131, 51.2010, 79.1451

# Monochromacy



## Original Color

37.4131, 51.2010, 79.1451



## Achromatopsia

34.3422, 36.1307, 39.3463



## Achromatomaly

32.7622, 39.8079, 51.8559

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.4131, 51.2010, 79.1451 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(49, 208, 225)` looks like.

```
.text, #text, p{  
    color:rgb(49, 208, 225)  
}
```

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(49, 208, 225) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 208, 225) }
```

## Border

The CSS property to change the border of an element to XYZ 37.4131, 51.2010, 79.1451 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(49, 208, 225) }
```



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

```
.border{ border-color:rgb(49, 208, 225) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 208, 225)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 208, 225); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 208, 225);  
box-shadow:4px 4px 4px 4px rgb(49, 208,  
225) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.4131, 51.2010, 79.1451 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 208, 225) }
```

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

```
.background{ background-color: rgb(49, 208,  
225) }
```

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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