

# Converting Colors

XYZ(41.7637, 62.8986, 77.5174)

Have a look what the booklet for  
XYZ(41.7637, 62.8986, 77.5174)  
contains.

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# Color

**XYZ(41.7749, 62.8805,  
77.6455)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00E8DC
RGB	0, 232, 220
RGB Percent	0%, 91%, 86%
CMY	0.9998, 0.0902, 0.1372
CMYK	1.00, 0.00, 0.05, 0.09
HSL	177°, 100%, 46%
HSV	177°, 100%, 91%
XYZ	41.7749, 62.8805, 77.6455
YIQ	161.2640, -134.4200, -52.9160

# Conversions

## Conversions Part 2

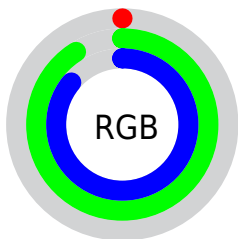
Format	Color
<a href="#">RYB</a>	<a href="#">0, 119, 232</a>
Decimal	<a href="#">59612</a>
CIELab	<a href="#">83.38, -48.20, -7.34</a>
CIELCh	<a href="#">83, 48.759, 188.656</a>
Yxy	<a href="#">62.8805, 0.2292, 0.3449</a>
Android (android.graphics.Color)	<a href="#">4278249692</a> ( <a href="#">0xFF00E8DC</a> )
YUV	<a href="#">161.2640, 28.9568, -141.4285</a>
Hunter-Lab	<a href="#">79.2972, -44.7338, -2.5470</a>

# Details

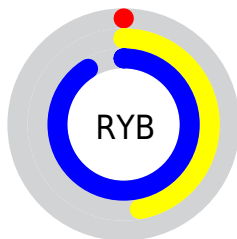
The XYZ color **41.7749, 62.8805, 77.6455** is a light color, and the websafe version is hex **00FFFF**. The color can be described as light washed cyan. A complement of this color would be **33.3472, 17.1843, 1.9091**, and the grayscale version is **33.9222, 35.6888, 38.8651**.

A 20% lighter version of the original color is **60.6201, 82.2507, 107.2887**, and **22.1215, 33.3766, 40.8737** is the 20% darker color. If you saturate the color by 10%, you get **41.7756, 62.8823, 77.6448**, and if you desaturate by 10%, it is **42.2950, 63.1316, 78.5043**.

# Distribution



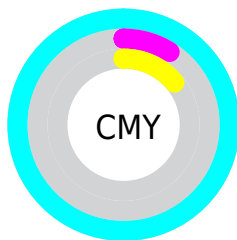
- Red (0%)
- Green (91%)
- Blue (86%)



- Red (0%)
- Yellow (47%)
- Blue (91%)



- Cyan (100%)
- Magenta (0%)
- Yellow (5%)
- Black (9%)



- Cyan (100%)
- Magenta (9%)
- Yellow (14%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 41.7749, 62.8805, 77.6455 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 41.7749, 62.8805, 77.6455 by changing the saturation by 10% instead.



41.7749, 62.8805,  
77.6455

41.7749, 62.8805,  
77.6455

344.5565,  
435.1357, 506.4581

29.1154, 45.7445,  
57.2681

77.1261, 108.9971,  
131.8316

19.3129, 32.0443,  
40.8097

100.5486,  
138.7465, 166.4774

12.0019, 21.3953,  
27.8519

128.2894,  
173.4692, 206.7163

6.8172, 13.4133,  
17.9760

160.7140,  
213.5496, 252.9670

3.3933, 7.7137,  
10.7635

198.1876,  
259.3720, 305.6480

1.3650, 3.9123,  
5.7958

241.0756,

0.2311, 1.6246,

311.3209, 365.1778

2.6546

289.7435,  
369.7807, 431.9750

■ 0.0000, 0.3741,  
0.9204

■ 0.0000, 0.0000,  
0.0000

■ 41.7749, 62.8805,  
77.6455

■ 41.7749, 62.8805,  
77.6455

■ 41.7756, 62.8823,  
77.6448

■ 42.2950, 63.1316,  
78.5043

■ 43.2439, 63.6022,  
79.3877

■ 44.7596, 64.3649,  
80.3037

■ 46.9214, 65.4605,  
81.2558

■ 49.7961, 66.9235,  
82.2474

■ 53.4420, 68.7839,  
83.2810

■ 57.9116, 71.0688,  
84.3593

■ 63.2527, 73.8029,  
85.4843

■ 69.5094, 77.0088,  
86.6583

# Harmonies

## Analogous

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



42.7010, 62.8805, 49.3201



41.7749, 62.8805, 77.6455



45.2033, 62.8805, 111.8510

# Triad

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



41.7749, 62.8805, 77.6455



73.4423, 62.8805, 125.0040



67.5060, 62.8805, 27.1801

# Complementary

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



41.7749, 62.8805, 77.6455



33.3472, 17.1843, 1.9091

# 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.



77.1621, 62.8805, 38.0611



41.7749, 62.8805, 77.6455



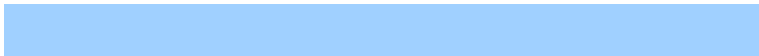
80.8617, 62.8805, 92.0188

# Square

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



41.7749, 62.8805, 77.6455



62.8907, 62.8805, 144.0303



82.2981, 62.8805, 60.0404



56.7466, 62.8805, 25.4140

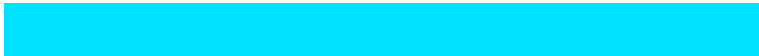


# Rectangle

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



41.7749, 62.8805, 77.6455



49.7661, 62.8805, 131.5010



82.2981, 62.8805, 60.0404



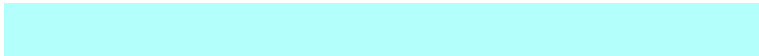
71.0231, 62.8805, 29.6960

# Sweetspot

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



41.7768, 62.8829, 77.6470



71.6542, 88.0119, 104.5126



29.0635, 57.8212, 9.6305



14.8088, 18.5680, 22.2474



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.



41.7768, 62.8829, 77.6470



51.7578, 77.9191, 96.1632



22.7495, 22.1924, 79.4309



14.7735, 16.3228, 18.3382



23.2063, 34.9146, 43.1822



1.7248, 2.5840, 3.2434



# Inverse Universe

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



33.3472, 17.1843, 1.9091



41.3139, 21.2896, 2.3192



37.8920, 26.3802, 3.0965



14.4071, 14.3800, 15.0781



18.5256, 9.5445, 1.1311

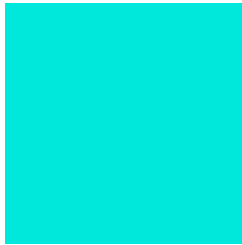


1.3797, 0.7096, 0.1400



# Previews

## White Background



This preview shows how the XYZ color 41.7749, 62.8805, 77.6455 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

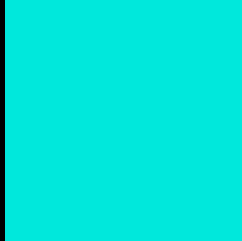
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 41.7749, 62.8805, 77.6455 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

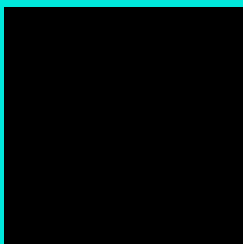
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

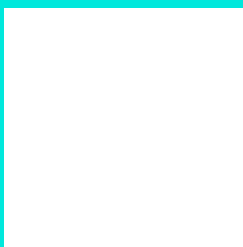
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 41.7749, 62.8805, 77.6455**

## **Background**



This preview shows how black text looks on a background with the XYZ color 41.7749, 62.8805, 77.6455.



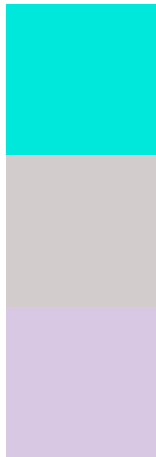
This preview shows how white text looks on a background with the XYZ color 41.7749, 62.8805,



# 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

41.7749, 62.8805, 77.6455

### Protanopia

59.3087, 61.7239, 65.9147

### Deuteranopia

62.8383, 61.4535, 81.2228



## Tritanopia

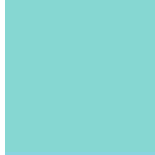
45.9481, 62.9323, 97.7211

# Trichromacy



## Original Color

41.7749, 62.8805, 77.6455



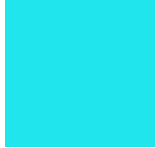
## Protanomaly

45.7648, 58.3224, 69.8180



## Deuteranomaly

47.3146, 57.7872, 79.1813



## Tritanomaly

43.9326, 62.4764, 89.8644

# Monochromacy



## Original Color

41.7749, 62.8805, 77.6455



## Achromatopsia

33.8758, 35.6400, 38.8120



## Achromatomaly

31.6933, 41.7428, 50.6427

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.7749, 62.8805, 77.6455 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, 232, 220)` looks like.

```
.text, #text, p{  
    color:rgb(0, 232, 220)  
}
```

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, 232, 220) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 232, 220) }
```

## Border

The CSS property to change the border of an element to XYZ 41.7749, 62.8805, 77.6455 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, 232, 220) }
```



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

```
.border{ border-color:rgb(0, 232, 220) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 232, 220)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 232, 220); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 232, 220);  
box-shadow:4px 4px 4px 4px rgb(0, 232,  
220) }
```

# Background

The CSS property to change the background color of an element to XYZ 41.7749, 62.8805, 77.6455 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 232, 220) }
```

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

```
.background{ background-color: rgb(0, 232,  
220) }
```

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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