

# Converting Colors

XYZ(42.5013, 63.1767, 77.7597)

Have a look what the booklet for  
XYZ(42.5013, 63.1767, 77.7597)  
contains.

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# Color

**XYZ(42.5378, 63.2738,  
77.6812)**

# Conversions

## Conversions Part 1

Format	Color
Hex	25E8DC
RGB	37, 232, 220
RGB Percent	15%, 91%, 86%
CMY	0.8548, 0.0902, 0.1372
CMYK	0.84, 0.00, 0.05, 0.09
HSL	176°, 81%, 53%
HSV	176°, 84%, 91%
XYZ	42.5378, 63.2738, 77.6812
YIQ	172.3270, -112.3680, -45.0720

# Conversions

## Conversions Part 2

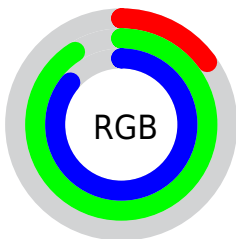
Format	Color
R <sub>Y</sub> B	37, 138, 232
Decimal	2484444
CIE Lab	83.59, -46.79, -7.01
CIE LCh	84, 47.316, 188.519
Yxy	63.2738, 0.2318, 0.3448
Android (android.graphics.Color)	4280674524 (0xFF25E8DC)
YUV	172.3270, 23.5028, -118.6818
Hunter-Lab	79.5448, -43.7479, -2.2195

# Details

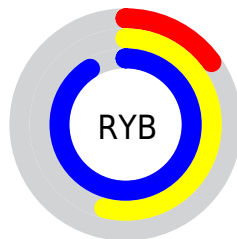
The XYZ color **42.5378, 63.2738, 77.6812** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light washed cyan. A complement of this color would be **34.4968, 18.7026, 4.6998**, and the grayscale version is **39.3073, 41.3543, 45.0348**.

A 20% lighter version of the original color is **61.8360, 82.8776, 107.3456**, and **22.1215, 33.3766, 40.8737** is the 20% darker color. If you saturate the color by 10%, you get **41.7660, 62.8991, 76.6633**, and if you desaturate by 10%, it is **43.8428, 63.9260, 78.7353**.

# Distribution



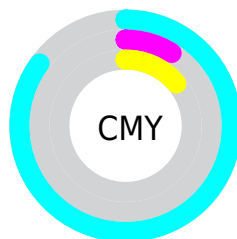
- Red (15%)
- Green (91%)
- Blue (86%)



- Red (15%)
- Yellow (54%)
- Blue (91%)



- Cyan (84%)
- Magenta (0%)
- Yellow (5%)
- Black (9%)




- Cyan (85%)
- Magenta (9%)
- Yellow (14%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.5378, 63.2738, 77.6812 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 42.5378, 63.2738, 77.6812 by changing the saturation by 10% instead.




 42.5378, 63.2738,  
77.6812


 42.5378, 63.2738,  
77.6812


347.6613,  
436.5625, 506.5827

 29.7156, 46.0627,  
57.2972


 78.2730, 109.5644,  
131.8824


 19.7698, 32.2953,  
40.8330


 101.9167,  
139.4128, 166.5367


 12.3351, 21.5872,  
27.8699


 129.8982,  
174.2424, 206.7849

 7.0462, 13.5539,  
17.9894

 162.5830,  
214.4376, 253.0455

 3.5376, 7.8110,  
10.7730

 200.3363,  
260.3828, 305.7370

 1.4440, 3.9743,  
5.8022

243.5236,

 0.2873, 1.6592,

312.4624, 365.2780

2.6583

292.5101,  
371.0609, 432.0871

■ 0.0000, 0.3970,  
0.9223

■ 0.0000, 0.0000,  
0.0000

■ 42.5378, 63.2738,  
77.6812

■ 42.5378, 63.2738,  
77.6812

■ 41.7660, 62.8991,  
76.6633

■ 43.8428, 63.9260,  
78.7353

■ 41.4762, 62.7626,  
76.0681

■ 45.7621, 64.8933,  
79.8252

■ 48.3687, 66.2148,  
80.9558

■ 51.7241, 67.9220,  
82.1299

■ 55.8830, 70.0433,  
83.3501

■ 60.8949, 72.6041,  
84.6187

■ 66.8053, 75.6280,  
85.9380

■ 73.6566, 79.1367,  
87.3099

■ 81.4883, 83.1506,  
88.7362

# Harmonies

## Analogous

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



43.4669, 63.2738, 50.0714



42.5378, 63.2738, 77.6812



45.8831, 63.2738, 110.8018

# Triad

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



42.5378, 63.2738, 77.6812



73.3952, 63.2738, 123.7562



67.7204, 63.2738, 28.3232

# Complementary

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



42.5378, 63.2738, 77.6812



34.4968, 18.7026, 4.6998

# 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.



77.0805, 63.2738, 39.1624



42.5378, 63.2738, 77.6812



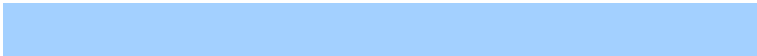
80.6093, 63.2738, 91.9269

# Square

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



42.5378, 63.2738, 77.6812



63.1344, 63.2738, 141.9689



82.0301, 63.2738, 60.7965



57.2415, 63.2738, 26.5229

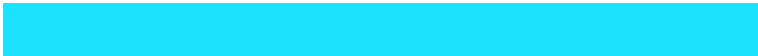


# Rectangle

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



42.5378, 63.2738, 77.6812



50.3406, 63.2738, 129.7779



82.0301, 63.2738, 60.7965



71.1348, 63.2738, 30.8420

# Sweetspot

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



42.5397, 63.2762, 77.6827



74.7334, 89.5986, 104.6850



30.5081, 58.5274, 11.4408



15.5090, 18.9289, 22.2871



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.



42.5397, 63.2762, 77.6827



51.3850, 77.7700, 94.2000



25.8428, 27.2465, 80.2435



14.7671, 16.3203, 18.3044



23.0426, 34.8492, 42.3204



1.7145, 2.5799, 3.1889



# Inverse Universe

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



34.4968, 18.7026, 4.6998



41.3313, 21.2965, 2.4106



40.5138, 31.0896, 5.6174



14.4128, 14.3823, 15.1082



18.5354, 9.5484, 1.1823

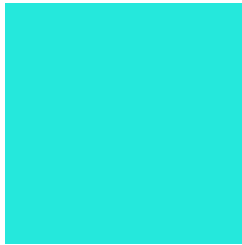


1.3824, 0.7107, 0.1545



# Previews

## White Background



This preview shows how the XYZ color 42.5378, 63.2738, 77.6812 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

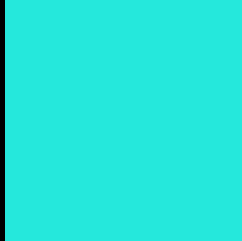
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.5378, 63.2738, 77.6812 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

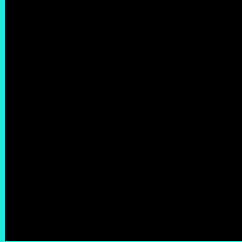
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

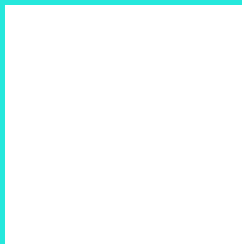
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 42.5378, 63.2738, 77.6812**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.5378, 63.2738, 77.6812.



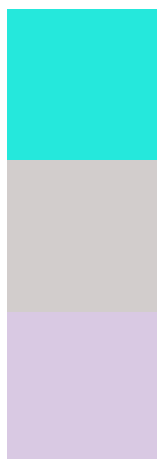
This preview shows how white text looks on a background with the XYZ color 42.5378, 63.2738,



# 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

42.5378, 63.2738, 77.6812

### Protanopia

59.3087, 61.7239, 65.9147

### Deuteranopia

63.3670, 62.0711, 81.3142



## Tritanopia

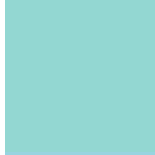
46.5185, 63.2263, 97.7478

# Trichromacy



## Original Color

42.5378, 63.2738, 77.6812



## Protanomaly

47.9659, 59.4571, 69.9211



## Deuteranomaly

49.9469, 59.1442, 79.3045



## Tritanomaly

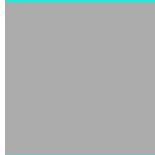
44.7736, 62.9099, 89.9038

# Monochromacy



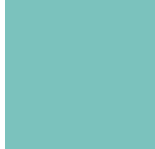
## Original Color

42.5378, 63.2738, 77.6812



## Achromatopsia

39.2122, 41.2543, 44.9259



## Achromatomaly

36.6455, 46.4686, 55.1820

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.5378, 63.2738, 77.6812 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(37, 232, 220)` looks like.

```
.text, #text, p{  
    color:rgb(37, 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(37, 232, 220) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(37, 232, 220) }
```

## Border

The CSS property to change the border of an element to XYZ 42.5378, 63.2738, 77.6812 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(37, 232, 220) }
```



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

```
.border{ border-color:rgb(37, 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(37, 232, 220)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(37, 232, 220); -webkit-box-  
shadow:4px 4px 4px 4px rgb(37, 232, 220);  
box-shadow:4px 4px 4px 4px rgb(37, 232,  
220) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.5378, 63.2738, 77.6812 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(37, 232, 220) }
```

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

```
.background{ background-color: rgb(37, 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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