

# Converting Colors

XYZ(50.7668, 78.5920, 42.6364)

Have a look what the booklet for  
XYZ(50.7668, 78.5920, 42.6364)  
contains.

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# Color

**XYZ(50.7157, 78.5657,  
42.6287)**

# Conversions

## Conversions Part 1

Format	Color
Hex	82FF99
RGB	130, 255, 153
RGB Percent	51%, 100%, 60%
CMY	0.4902, 0.0000, 0.4000
CMYK	0.49, 0.00, 0.40, 0.00
HSL	131°, 100%, 75%
HSV	131°, 49%, 100%
XYZ	50.7157, 78.5657, 42.6287
YIQ	205.9970, -41.7580, -58.2220

# Conversions

## Conversions Part 2

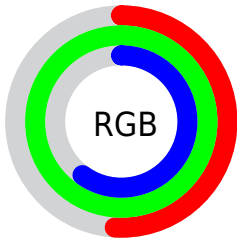
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">130, 236, 255</a>
Decimal	<a href="#">8585113</a>
CIELab	<a href="#">91.04, -55.82, 38.24</a>
CIElCh	<a href="#">91, 67.663, 145.591</a>
Yxy	<a href="#">78.5657, 0.2950, 0.4570</a>
Android (android.graphics.Color)	<a href="#">4286775193 (0xFF82FF99)</a>
YUV	<a href="#">205.9970, -26.1275, -66.6494</a>
Hunter-Lab	<a href="#">88.6373, -52.9827, 33.5315</a>

# Details

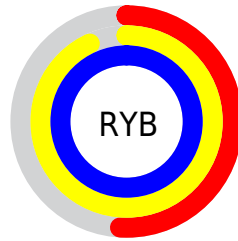
The XYZ color **50.7157, 78.5657, 42.6287** is a light color, and the websafe version is hex **99FF99**. A complement of this color would be **63.7882, 43.0518, 81.2909**, and the grayscale version is **58.8454, 61.9099, 67.4199**.

A 20% lighter version of the original color is **68.1314, 86.8929, 72.8556**, and **24.6991, 42.1010, 19.1365** is the 20% darker color. If you saturate the color by 10%, you get **45.7056, 76.1645, 34.1922**, and if you desaturate by 10%, it is **56.9956, 81.5869, 52.6915**.

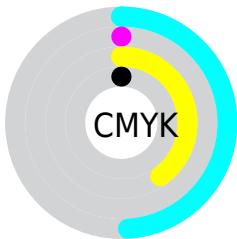
# Distribution



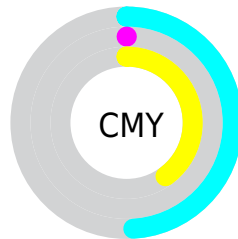
- Red (51%)
- Green (100%)
- Blue (60%)



- Red (51%)
- Yellow (93%)
- Blue (100%)



- Cyan (49%)
- Magenta (0%)
- Yellow (40%)
- Black (0%)




- Cyan (49%)
- Magenta (0%)
- Yellow (40%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 50.7157, 78.5657, 42.6287 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 50.7157, 78.5657, 42.6287 by changing the saturation by 10% instead.





 50.7157, 78.5657,  
42.6287


 50.7157, 78.5657,  
42.6287


379.8641,  
490.0859, 372.9588


 36.2025, 58.5388,  
29.2647


 90.4199, 131.3473,  
80.4306

 24.7615, 42.2420,  
19.0338


 116.3416,  
164.8707, 105.7055

 16.0272, 29.2908,  
11.5177


 146.7969,  
203.6619, 135.7878

 9.6344, 19.3009,  
6.2976

182.1511,  
248.1050, 171.0960

 5.2176, 11.8879,  
2.9552

222.7695,  
298.5846, 212.0487

 2.4116, 6.6674,  
1.0718

269.0176,

 0.8509, 3.2550,

355.4850, 259.0644

0.0000

321.2607,  
419.1906, 312.5615

0.0000, 1.2663,  
0.0000

0.0000, 0.1148,  
0.0000

50.7157, 78.5657,  
42.6287

50.7157, 78.5657,  
42.6287

45.7056, 76.1645,  
34.1922

56.9956, 81.5869,  
52.6915

41.8752, 74.3386,  
27.2928

64.6237, 85.2668,  
64.4559

39.1250, 73.0387,  
21.8385

73.6737, 89.6420,  
77.9969

37.3372, 72.2062,  
17.7260

84.2136, 94.7458,  
93.3842

■ 36.3449, 71.7576, 95.0500, 100.0000,  
14.8368 108.9000

■ 36.2715, 71.7246,  
14.6137

# Harmonies

## Analogous

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



61.3628, 78.5657, 25.6507



50.7157, 78.5657, 42.6287



46.4732, 78.5657, 78.5135

# Triad

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



50.7157, 78.5657, 42.6287



72.1771, 78.5657, 217.8342



108.3983, 78.5657, 50.9981

# Complementary

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



50.7157, 78.5657, 42.6287



63.7882, 43.0518, 81.2909

# 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.



112.4554, 78.5657, 92.9836



50.7157, 78.5657, 42.6287



89.7839, 78.5657, 201.5632

# Square

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



50.7157, 78.5657, 42.6287



57.6045, 78.5657, 189.0248



105.1925, 78.5657, 150.4939



94.8216, 78.5657, 29.0295



# Rectangle

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



50.7157, 78.5657, 42.6287



47.2883, 78.5657, 113.4085



105.1925, 78.5657, 150.4939



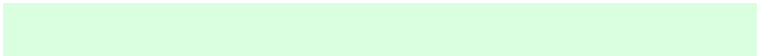
111.0011, 78.5657, 62.6652

# Sweetspot

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



50.7162, 78.5660, 42.6300



77.7269, 91.6038, 83.9553



73.0953, 90.3016, 34.6971



16.1752, 19.3835, 17.2929



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

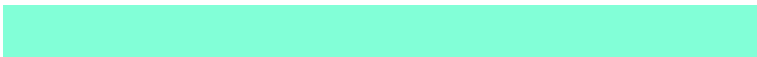
The Same Dimension uses a secret algorithm to generate beautiful new colors.



50.7162, 78.5660, 42.6300



45.7139, 76.1685, 34.2067



57.2856, 81.1937, 77.2241



17.9081, 20.2228, 19.8188



18.9916, 37.4932, 7.8411



1.8841, 3.6645, 0.9473



# Inverse Universe

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



63.7882, 43.0518, 81.2909



60.1546, 36.8352, 76.8409



56.4393, 40.1123, 42.5922



18.6408, 18.2396, 21.9917



27.5544, 13.5111, 32.6337

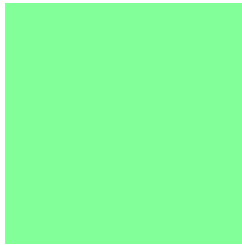


2.7184, 1.3297, 3.3645



# Previews

## White Background



This preview shows how the XYZ color 50.7157, 78.5657, 42.6287 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

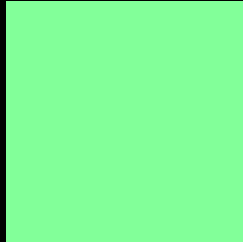
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 50.7157, 78.5657, 42.6287 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

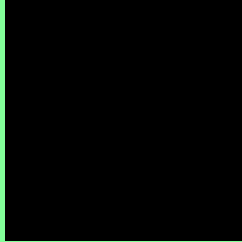
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

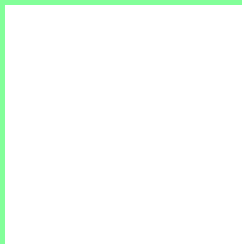
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 50.7157, 78.5657, 42.6287**

## **Background**



This preview shows how black text looks on a background with the XYZ color 50.7157, 78.5657, 42.6287.



This preview shows how white text looks on a background with the XYZ color 50.7157, 78.5657,



# 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

50.7157, 78.5657, 42.6287

### Protanopia

71.3373, 77.3963, 36.7703

### Deuteranopia

76.7652, 77.2641, 60.1577



## Tritanopia

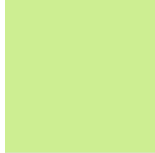
66.1501, 77.8372, 106.1454

# Trichromacy



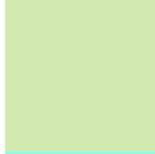
## Original Color

50.7157, 78.5657, 42.6287



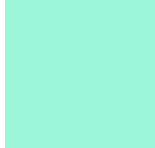
## Protanomaly

60.9397, 76.2035, 38.6910



## Deuteranomaly

63.9370, 75.7216, 52.8409



## Tritanomaly

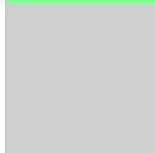
59.2119, 77.5349, 78.1746

# Monochromacy



## Original Color

50.7157, 78.5657, 42.6287



## Achromatopsia

58.6655, 61.7207, 67.2138



## Achromatomaly

53.9854, 66.3641, 56.9779

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 50.7157, 78.5657, 42.6287 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(130, 255, 153)` looks like.

```
.text, #text, p{  
    color:rgb(130, 255, 153)  
}
```

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(130, 255, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(130, 255, 153) }
```

## Border

The CSS property to change the border of an element to XYZ 50.7157, 78.5657, 42.6287 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(130, 255, 153) }
```



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

```
.border{ border-color:rgb(130, 255, 153) }
```

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

Here you see how a box with a 4 pixel `rgb(130, 255, 153)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(130, 255, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(130, 255, 153);  
box-shadow:4px 4px 4px 4px rgb(130, 255,  
153) }
```

# Background

The CSS property to change the background color of an element to XYZ 50.7157, 78.5657, 42.6287 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(130, 255, 153) }
```

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

```
.background{ background-color: rgb(130,  
255, 153) }
```

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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