

# Converting Colors

XYZ(78.3155, 100.0000,  
121.7379)

Have a look what the booklet for  
XYZ(78.3155, 100.0000, 121.7379)  
contains.

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# Color

**XYZ(69.9584, 87.0648,  
107.7257)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A8FFFF
RGB	168, 255, 255
RGB Percent	66%, 100%, 100%
CMY	0.3412, 0.0000, 0.0000
CMYK	0.34, 0.00, 0.00, 0.00
HSL	180°, 100%, 83%
HSV	180°, 34%, 100%
XYZ	69.9584, 87.0648, 107.7257
YIQ	228.9870, -51.8520, -18.4440

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	168, 212, 255
Decimal	11075583
CIE <sub>Lab</sub>	94.77, -25.99, -8.31
CIE <sub>LCh</sub>	95, 27.292, 197.735
Yxy	87.0648, 0.2642, 0.3289
Android (android.graphics.Color)	4289265663 (0xFFA8FFFF)
YUV	228.9870, 12.8244, -53.4856
Hunter-Lab	93.3085, -29.4589, -3.1350

# Details

The XYZ color **69.9584, 87.0648, 107.7257** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **62.3115, 52.0939, 43.8185**, and the grayscale version is **74.4026, 78.2773, 85.2440**.

A 20% lighter version of the original color is **85.1740, 94.9088, 108.4378**, and **36.9427, 47.8449, 60.7140** is the 20% darker color. If you saturate the color by 10%, you get **65.0520, 84.5354, 107.4961**, and if you desaturate by 10%, it is **75.9310, 90.1438, 108.0052**.

# Distribution



- Red (66%)
- Green (100%)
- Blue (100%)



- Red (66%)
- Yellow (83%)
- Blue (100%)



- Cyan (34%)
- Magenta (0%)
- Yellow (0%)
- Black (0%)



- Cyan (34%)
- Magenta (0%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 69.9584, 87.0648, 107.7257 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 69.9584, 87.0648, 107.7257 by changing the saturation by 10% instead.



69.9584, 87.0648,  
107.7257

69.9584, 87.0648,  
107.7257

449.6726,  
518.4358, 606.1451

51.7721, 65.5488,  
82.1153

118.1760,  
143.2545, 173.8784

37.0470, 47.9062,  
60.9242

148.9380,  
178.6969, 215.2578

25.4177, 33.7526,  
43.7339

184.6227,  
219.5504, 262.7306

16.5189, 22.7036,  
30.1257

225.5953,  
266.1992, 316.7154

9.9853, 14.3748,  
19.6811

272.2213,  
319.0277, 377.6307

5.4514, 8.3818,  
11.9817

324.8659,

2.5519, 4.3402,

378.4204, 445.8950

6.6088

383.8946,  
444.7616, 521.9270

■ 0.9215, 1.8656,  
3.1440

■ 0.0000, 0.5276,  
1.1686

■ 69.9584, 87.0648,  
107.7257

■ 69.9584, 87.0648,  
107.7257

■ 65.0520, 84.5354,  
107.4961

■ 75.9310, 90.1438,  
108.0052

■ 61.1466, 82.5222,  
107.3133

■ 83.0245, 93.8006,  
108.3372

■ 58.1742, 80.9898,  
107.1742

■ 91.2933, 98.0633,  
108.7242

■ 56.0570, 79.8984,  
107.0752

95.0500, 100.0000,  
108.9000

■ 54.7048, 79.2013,  
107.0119

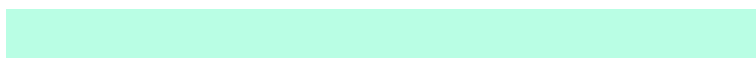
■ 54.0071, 78.8416,  
106.9792

■ 53.8100, 78.7400,  
106.9700

# Harmonies

## Analogous

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



69.6455, 87.0648, 86.4244



69.9584, 87.0648, 107.7257



73.5704, 87.0648, 128.1686

# Triad

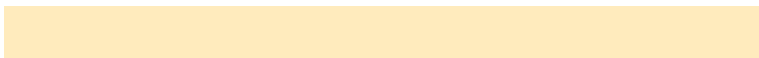
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



69.9584, 87.0648, 107.7257



93.7050, 87.0648, 124.8445



85.8039, 87.0648, 60.3720

# Complementary

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



69.9584, 87.0648, 107.7257



62.3115, 52.0939, 43.8185

# 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.



92.6685, 87.0648, 67.7906



69.9584, 87.0648, 107.7257



97.4087, 87.0648, 103.6973

# Square

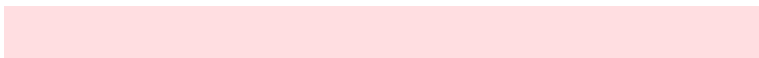
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



69.9584, 87.0648, 107.7257



87.1510, 87.0648, 139.0176



97.0184, 87.0648, 82.9497



78.5045, 87.0648, 61.1181



# Rectangle

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



69.9584, 87.0648, 107.7257



77.4912, 87.0648, 137.6042



97.0184, 87.0648, 82.9497



88.2467, 87.0648, 61.9418

# Sweetspot

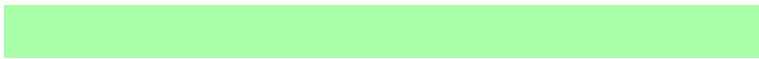
The Sweet Spot groups the original color and five complimentary colors.



69.9592, 87.0652, 107.7258



86.2829, 95.4804, 108.4897



58.9775, 82.6725, 49.8965



18.2251, 20.3115, 23.2099



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

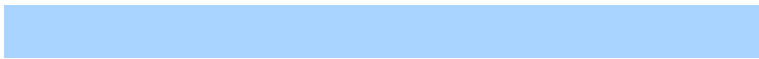
The Same Dimension uses a secret algorithm to generate beautiful new colors.



69.9592, 87.0652, 107.7258



66.4707, 85.2668, 107.5625



57.6184, 62.3835, 103.6122



18.5550, 20.4815, 23.2253



28.1169, 41.1433, 55.8941



2.7376, 4.0060, 5.4422



# Inverse Universe

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



73.2933, 56.4866, 101.6478



70.2683, 50.4366, 100.6394



71.7274, 70.9256, 46.9571



18.7928, 18.3004, 22.7918



30.9803, 14.8814, 50.6741

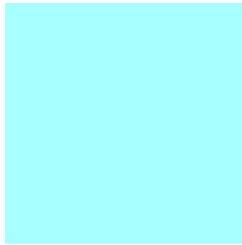


3.0164, 1.4490, 4.9340



# Previews

## White Background



This preview shows how the XYZ color 69.9584, 87.0648, 107.7257 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

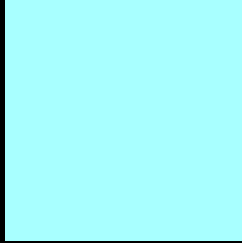
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 69.9584, 87.0648, 107.7257 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

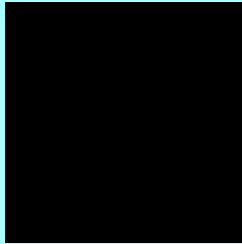
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 69.9584, 87.0648, 107.7257**

## **Background**



This preview shows how black text looks on a background with the XYZ color 69.9584, 87.0648, 107.7257.



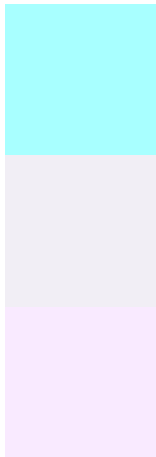
This preview shows how white text looks on a background with the XYZ color 69.9584, 87.0648,



# 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

69.9584, 87.0648, 107.7257

### Protanopia

83.3316, 86.4424, 98.6792

### Deuteranopia

86.5397, 86.2054, 106.6859



## Tritanopia

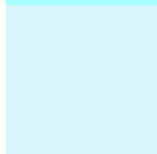
77.8538, 86.5219, 107.2048

# Trichromacy



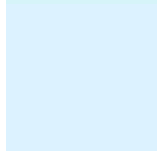
## Original Color

69.9584, 87.0648, 107.7257



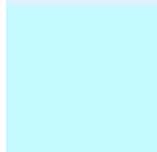
## Protanomaly

77.1811, 85.8371, 102.1229



## Deuteranomaly

79.3173, 85.9399, 107.0153



## Tritanomaly

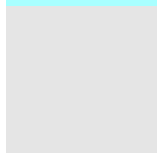
74.6906, 86.7071, 107.4073

# Monochromacy



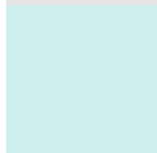
## Original Color

69.9584, 87.0648, 107.7257



## Achromatopsia

74.4753, 78.3538, 85.3273



## Achromatomaly

71.7393, 80.5875, 92.6628

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 69.9584, 87.0648, 107.7257 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(168, 255, 255)` looks like.

```
.text, #text, p{  
    color:rgb(168, 255, 255)  
}
```

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(168, 255, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(168, 255, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 69.9584, 87.0648, 107.7257 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(168, 255, 255) }
```



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

```
.border{ border-color:rgb(168, 255, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(168, 255, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(168, 255, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(168, 255, 255);  
box-shadow:4px 4px 4px 4px rgb(168, 255,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 69.9584, 87.0648, 107.7257 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(168, 255, 255) }
```

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

```
.background{ background-color: rgb(168,  
255, 255) }
```

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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