

# Converting Colors

XYZ(47.7647, 77.2248, 34.3427)

Have a look what the booklet for  
XYZ(47.7647, 77.2248, 34.3427)  
contains.

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# Color

**XYZ(47.8100, 77.2509,  
34.2209)**

# Conversions

## Conversions Part 1

Format	Color
Hex	79FF84
RGB	121, 255, 132
RGB Percent	47%, 100%, 52%
CMY	0.5255, 0.0000, 0.4823
CMYK	0.53, 0.00, 0.48, 0.00
HSL	125°, 100%, 74%
HSV	125°, 53%, 100%
XYZ	47.8100, 77.2509, 34.2209
YIQ	200.9120, -40.3810, -66.6610

# Conversions

## Conversions Part 2

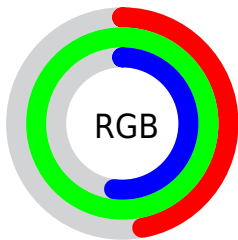
<b>Format</b>	<b>Color</b>
<b>RYB</b>	121, 245, 255
Decimal	7995268
CIELab	90.44, -61.13, 47.53
CIELCh	90, 77.438, 142.134
Yxy	77.2509, 0.3002, 0.4850
Android (android.graphics.Color)	4286185348 (0xFF79FF84)
YUV	200.9120, -33.9736, -70.0828
Hunter-Lab	87.8925, -56.7150, 38.4402

# Details

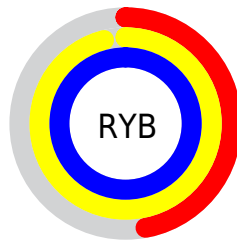
The XYZ color **47.8100, 77.2509, 34.2209** is a light color, and the websafe version is hex **66FF99**. A complement of this color would be **64.4062, 41.4664, 90.1951**, and the grayscale version is **55.6845, 58.5844, 63.7984**.

A 20% lighter version of the original color is **63.7857, 84.9316, 60.0453**, and **22.8989, 41.2813, 14.1583** is the 20% darker color. If you saturate the color by 10%, you get **43.2702, 75.0753, 26.5650**, and if you desaturate by 10%, it is **53.6542, 80.0573, 43.8158**.

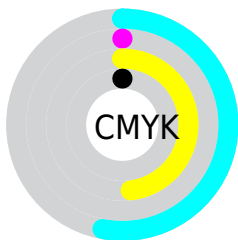
# Distribution



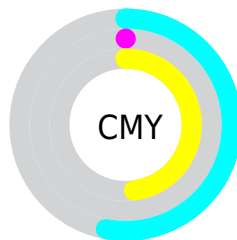
- Red (47%)
- Green (100%)
- Blue (52%)



- Red (47%)
- Yellow (96%)
- Blue (100%)



- Cyan (53%)
- Magenta (0%)
- Yellow (48%)
- Black (0%)




- Cyan (53%)
- Magenta (0%)
- Yellow (48%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.8100, 77.2509, 34.2209 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 47.8100, 77.2509, 34.2209 by changing the saturation by 10% instead.





 47.8100, 77.2509,  
34.2209


 47.8100, 77.2509,  
34.2209


368.6337,  
485.6191, 335.9151


 33.8871, 57.4588,  
22.7846


 86.1329, 129.4936,  
67.4149

 22.9693, 41.3737,  
14.2307


 111.2635,  
162.7130, 90.0096

 14.6914, 28.6112,  
8.1407


 140.8607,  
201.1770, 117.1609

 8.6880, 18.7869,  
4.0961

175.2900,  
245.2699, 149.2874

 4.5937, 11.5164,  
1.6782

214.9165,  
295.3762, 186.8075

 2.0432, 6.4153,  
0.3457

260.1057,

 0.6581, 3.0992,

351.8802, 230.1398

0.0000

311.2230,  
415.1663, 279.7028

0.0000, 1.1838,  
0.0000

0.0000, 0.0484,  
0.0000

47.8100, 77.2509,  
34.2209

47.8100, 77.2509,  
34.2209

43.2702, 75.0753,  
26.5650

53.6542, 80.0573,  
43.8158

39.9331, 73.4810,  
20.7128


60.8915, 83.5380,  
55.4654


37.6840, 72.4121,  
16.5173

69.6043, 87.7328,  
69.2807

36.3846, 71.8009,  
13.8072

79.8682, 92.6787,  
85.3637

 35.8948, 71.5739,  
12.6298

 91.7535, 98.4098,  
103.8098

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



60.2878, 77.2509, 19.0095



47.8100, 77.2509, 34.2209



42.4090, 77.2509, 70.3665

# Triad

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



47.8100, 77.2509, 34.2209



68.4532, 77.2509, 239.8285



113.5304, 77.2509, 50.0335

# Complementary

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



47.8100, 77.2509, 34.2209



64.4062, 41.4664, 90.1951

# 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.



116.7567, 77.2509, 99.5427



47.8100, 77.2509, 34.2209



88.3434, 77.2509, 226.3252

# Square

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



47.8100, 77.2509, 34.2209



52.8857, 77.2509, 199.2893



106.8619, 77.2509, 167.8636



98.6925, 77.2509, 24.9449



# Rectangle

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



47.8100, 77.2509, 34.2209



42.7435, 77.2509, 108.5405



106.8619, 77.2509, 167.8636



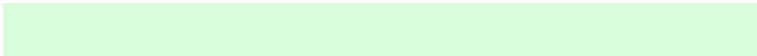
116.1028, 77.2509, 63.6566

# Sweetspot

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



47.8104, 77.2510, 34.2221



76.1460, 90.8847, 79.5506



77.2407, 92.5054, 31.8737



15.8426, 19.2334, 16.3133



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.



47.8104, 77.2510, 34.2221



43.0945, 74.9912, 26.2630



53.7157, 79.6132, 65.3193



17.8321, 20.1924, 19.4188



18.7767, 37.4073, 6.7094



1.8480, 3.6501, 0.7575



# Inverse Universe

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



64.4062, 41.4664, 90.1951



61.2722, 35.7271, 87.5208



56.2210, 38.1923, 47.0921



18.7245, 18.2731, 22.4325



29.3405, 14.2255, 42.0388

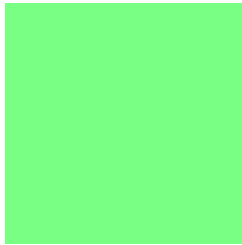


2.8750, 1.3924, 4.1893



# Previews

## White Background



This preview shows how the XYZ color 47.8100, 77.2509, 34.2209 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

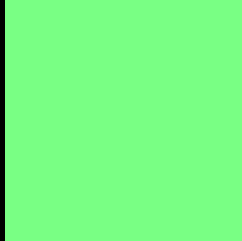
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.8100, 77.2509, 34.2209 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

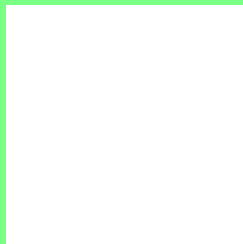
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 47.8100, 77.2509, 34.2209**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.8100, 77.2509, 34.2209.



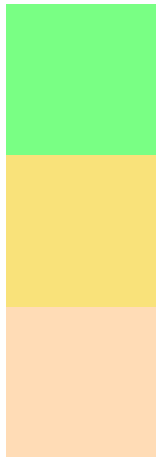
This preview shows how white text looks on a background with the XYZ color 47.8100, 77.2509,



# 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

47.8100, 77.2509, 34.2209

### Protanopia

69.7761, 75.9376, 29.3922

### Deuteranopia

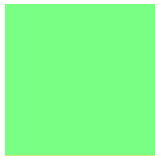
75.2767, 75.8238, 54.9239



## Tritanopia

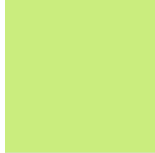
64.1416, 76.3684, 105.9677

# Trichromacy



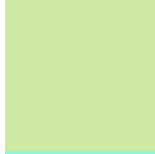
## Original Color

47.8100, 77.2509, 34.2209



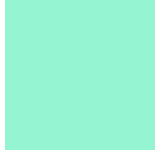
## Protanomaly

58.4072, 74.6313, 31.0656



## Deuteranomaly

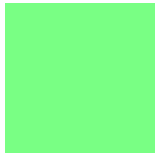
61.2934, 74.0800, 46.1903



## Tritanomaly

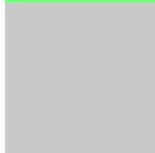
56.3780, 75.7441, 72.6214

# Monochromacy



## Original Color

47.8100, 77.2509, 34.2209



## Achromatopsia

55.5167, 58.4078, 63.6061



## Achromatomaly

50.7062, 63.6181, 50.6813

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.8100, 77.2509, 34.2209 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(121, 255, 132)` looks like.

```
.text, #text, p{  
    color:rgb(121, 255, 132)  
}
```

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(121, 255, 132) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(121, 255, 132) }
```

## Border

The CSS property to change the border of an element to XYZ 47.8100, 77.2509, 34.2209 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(121, 255, 132) }
```



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

```
.border{ border-color:rgb(121, 255, 132) }
```

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

Here you see how a box with a 4 pixel `rgb(121, 255, 132)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(121, 255, 132); -webkit-box-  
shadow:4px 4px 4px 4px rgb(121, 255, 132);  
box-shadow:4px 4px 4px 4px rgb(121, 255,  
132) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.8100, 77.2509, 34.2209 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(121, 255, 132) }
```

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

```
.background{ background-color: rgb(121,  
255, 132) }
```

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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