

# Converting Colors

XYZ(33.9204, 36.9341, 99.9489)

Have a look what the booklet for  
XYZ(33.9204, 36.9341, 99.9489)  
contains.

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# Color

**XYZ(33.9782, 37.0496,  
99.9682)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33ABFF
RGB	51, 171, 255
RGB Percent	20%, 67%, 100%
CMY	0.7999, 0.3294, 0.0000
CMYK	0.80, 0.33, 0.00, 0.00
HSL	205°, 100%, 60%
HSV	205°, 80%, 100%
XYZ	33.9782, 37.0496, 99.9682
YIQ	144.6960, -98.4840, 0.6840

# Conversions

## Conversions Part 2

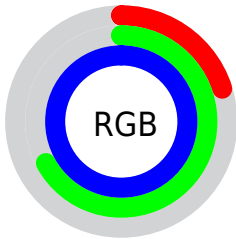
<b>Format</b>	<b>Color</b>
<b>RYB</b>	51, 127, 255
Decimal	3386367
CIELab	67.31, -4.25, -50.74
CIELCh	67, 50.918, 265.209
Yxy	37.0496, 0.1987, 0.2167
Android (android.graphics.Color)	4281576447 (0xFF33ABFF)
YUV	144.6960, 54.3799, -82.1714
Hunter-Lab	60.8684, -6.8767, -54.7680

# Details

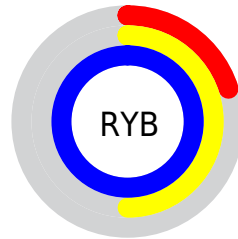
The XYZ color **33.9782, 37.0496, 99.9682** is a light color, and the websafe version is hex **0099FF**. The color can be described as light washed azure. A complement of this color would be **50.5046, 38.8324, 7.9678**, and the grayscale version is **26.6085, 27.9942, 30.4857**.

A 20% lighter version of the original color is **54.1484, 66.2019, 104.5321**, and **16.7899, 17.2709, 55.8748** is the 20% darker color. If you saturate the color by 10%, you get **31.1216, 32.7489, 99.2886**, and if you desaturate by 10%, it is **37.6982, 42.0303, 100.7335**.

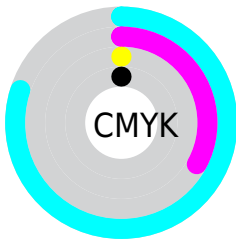
# Distribution



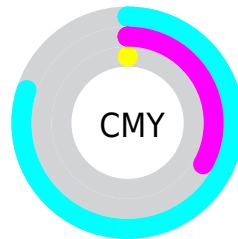
- Red (20%)
- Green (67%)
- Blue (100%)



- Red (20%)
- Yellow (50%)
- Blue (100%)



- Cyan (80%)
- Magenta (33%)
- Yellow (0%)
- Black (0%)



- Cyan (80%)
- Magenta (33%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.9782, 37.0496, 99.9682 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 33.9782, 37.0496, 99.9682 by changing the saturation by 10% instead.



■ 33.9782, 37.0496,  
99.9682

■ 33.9782, 37.0496,  
99.9682

311.6225,  
333.5252, 581.3365

■ 23.0397, 25.2459,  
75.6572

■ 65.2443, 70.6491,  
163.1650

■ 14.7437, 16.2604,  
55.6465

■ 86.3025, 93.2136,  
202.8879

■ 8.7248, 9.7086,  
39.5175

■ 111.4647,  
120.1339, 248.5852

■ 4.6178, 5.2062,  
26.8516

■ 141.0963,  
151.7943, 300.6754

■ 2.0572, 2.3687,  
17.2304

175.5624,  
188.5793, 359.5771

■ 0.6658, 0.8097,  
10.2352

215.2286,

■ 0.0000, 0.0000,

230.8731, 425.7089

5.4475

260.4602,  
279.0603, 499.4891

■ 0.0000, 0.0000,  
2.4489

■ 0.0000, 0.0000,  
0.8129

■ 33.9782, 37.0496,  
99.9682

■ 33.9782, 37.0496,  
99.9682

■ 31.1216, 32.7489,  
99.2886

■ 37.6982, 42.0303,  
100.7335

■ 28.9566, 29.0328,  
98.6855

■ 42.3822, 47.7467,  
101.5900

■ 28.9550, 29.0300,  
98.6850

■ 48.1191, 54.2501,  
102.5429

■ 54.9862, 61.5853,  
103.5968

■ 63.0528, 69.7927,  
104.7558

■ 72.3821, 78.9097,  
106.0239

■ 83.0330, 88.9710,  
107.4045

■ 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.



27.3405, 37.0496, 86.8219



33.9782, 37.0496, 99.9682



41.9875, 37.0496, 92.9327

# Triad

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



33.9782, 37.0496, 99.9682



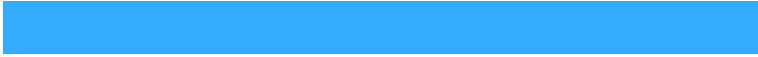
50.5799, 37.0496, 24.6889



24.2899, 37.0496, 20.4802

# Complementary

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



33.9782, 37.0496, 99.9682



50.5046, 38.8324, 7.9678

# 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.



29.2122, 37.0496, 12.6446



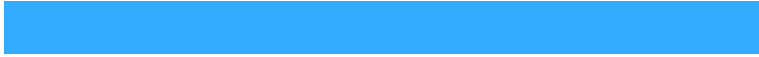
33.9782, 37.0496, 99.9682



44.4715, 37.0496, 14.3710

# Square

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



33.9782, 37.0496, 99.9682



52.3497, 37.0496, 44.0309



36.4805, 37.0496, 10.9141



22.2975, 37.0496, 36.8627



# Rectangle

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



33.9782, 37.0496, 99.9682



46.9505, 37.0496, 78.7402



36.4805, 37.0496, 10.9141



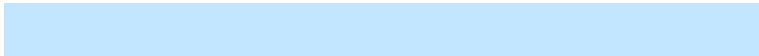
25.6180, 37.0496, 17.0369

# Sweetspot

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



33.9795, 37.0507, 99.9683



68.4874, 75.1441, 105.5023



41.3332, 73.9071, 34.1371



13.9556, 15.3943, 22.4858



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

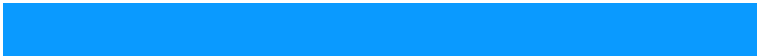


# Same Dimension

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



33.9795, 37.0507, 99.9683



29.7650, 30.4604, 98.9184



21.6962, 12.4842, 95.8739



17.8911, 19.1537, 23.0040



15.2803, 15.4702, 51.6153



1.5955, 1.7217, 5.0615



# Inverse Universe

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



49.7756, 26.5698, 41.0339



47.1994, 23.8209, 32.7659



71.4325, 80.6882, 14.9438



18.4577, 18.1664, 21.0272



24.5010, 12.2897, 16.5545

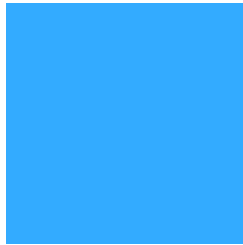


2.4399, 1.2183, 1.8981



# Previews

## White Background



This preview shows how the XYZ color 33.9782, 37.0496, 99.9682 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

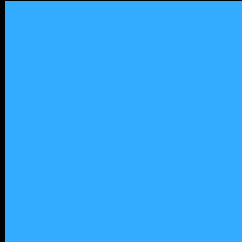
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 33.9782, 37.0496, 99.9682 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

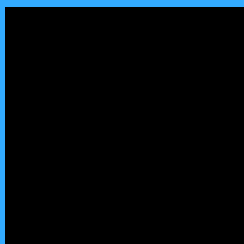
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

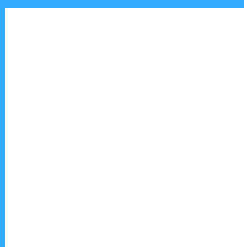
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 33.9782, 37.0496, 99.9682**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.9782, 37.0496, 99.9682.



This preview shows how white text looks on a background with the XYZ color 33.9782, 37.0496,



# 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

33.9782, 37.0496, 99.9682

### Protanopia

38.7251, 36.7207, 91.4330

### Deuteranopia

37.8293, 36.8591, 99.7284



## Tritanopia

26.3742, 36.9879, 57.3791

# Trichromacy



**Original Color**

33.9782, 37.0496, 99.9682

**Protanomaly**

35.9679, 36.2740, 94.7284

**Deuteranomaly**

35.9027, 36.6661, 99.7927

**Tritanomaly**

28.5151, 36.5925, 71.2058

# Monochromacy



**Original Color**

33.9782, 37.0496, 99.9682

**Achromatopsia**

26.9133, 28.3149, 30.8349

**Achromatomaly**

26.8681, 29.9935, 50.2722

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.9782, 37.0496, 99.9682 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(51, 171, 255)` looks like.

```
.text, #text, p{  
    color:rgb(51, 171, 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(51, 171, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 171, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 33.9782, 37.0496, 99.9682 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(51, 171, 255) }
```



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

```
.border{ border-color:rgb(51, 171, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 171, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 171, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 171, 255);  
box-shadow:4px 4px 4px 4px rgb(51, 171,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.9782, 37.0496, 99.9682 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 171, 255) }
```

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

```
.background{ background-color: rgb(51, 171,  
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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