

Converting Colors

XYZ(33.7269, 36.5467, 99.8844)

Have a look what the booklet for
XYZ(33.7269, 36.5467, 99.8844)
contains.

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Color

**XYZ(33.7900, 36.6733,
99.9055)**

Conversions

Conversions Part 1

Format	Color
Hex	33AAFF
RGB	51, 170, 255
RGB Percent	20%, 67%, 100%
CMY	0.7999, 0.3333, 0.0000
CMYK	0.80, 0.33, 0.00, 0.00
HSL	205°, 100%, 60%
HSV	205°, 80%, 100%
XYZ	33.7900, 36.6733, 99.9055
YIQ	144.1090, -98.2090, 1.2070

Conversions

Conversions Part 2

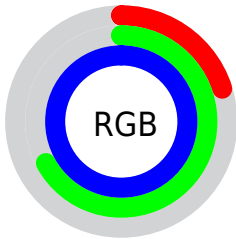
Format	Color
R _Y B	51, 126, 255
Decimal	3386111
CIE Lab	67.03, -3.69, -51.19
CIE LCh	67, 51.320, 265.878
Yxy	36.6733, 0.1983, 0.2153
Android (android.graphics.Color)	4281576191 (0xFF33AAFF)
YUV	144.1090, 54.6693, -81.6566
Hunter-Lab	60.5585, -6.3792, -55.4219

Details

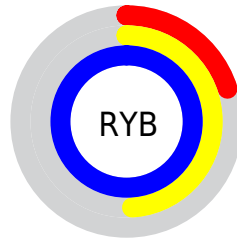
The XYZ color **33.7900, 36.6733, 99.9055** is a light color, and the websafe version is hex **0099FF**. The color can be described as light washed azure. A complement of this color would be **50.6445, 39.1123, 8.0143**, and the grayscale version is **26.3709, 27.7443, 30.2135**.

A 20% lighter version of the original color is **53.8773, 65.6596, 104.4417**, and **16.6715, 17.0341, 55.8353** is the 20% darker color. If you saturate the color by 10%, you get **30.9267, 32.3591, 99.2237**, and if you desaturate by 10%, it is **37.5201, 41.6743, 100.6742**.

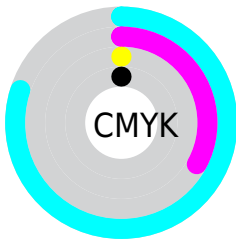
Distribution



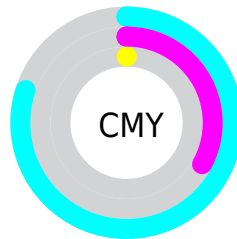
- Red (20%)
- Green (67%)
- Blue (100%)



- Red (20%)
- Yellow (49%)
- 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 33.7900, 36.6733, 99.9055 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 33.7900, 36.6733, 99.9055 by changing the saturation by 10% instead.

■ 33.7900, 36.6733,
99.9055

■ 33.7900, 36.6733,
99.9055

310.7971,
331.8939, 581.1337

■ 22.8944, 24.9546,
75.6052

■ 64.9534, 70.0700,
163.0781

■ 14.6358, 16.0433,
55.6041

■ 85.9520, 92.5169,
202.7874

■ 8.6489, 9.5548,
39.4837

■ 111.0490,
119.3086, 248.4701

■ 4.5681, 5.1048,
26.8255

■ 140.6097,
150.8296, 300.5448

■ 2.0283, 2.3089,
17.2110

174.9995,
187.4642, 359.4299

■ 0.6498, 0.7784,
10.2215

214.5838,

■ 0.0000, 0.0000,

229.5969, 425.5441

5.4385

259.7278,
277.6120, 499.3059

■ 0.0000, 0.0000,
2.4436

■ 0.0000, 0.0000,
0.8100

■ 33.7900, 36.6733,
99.9055

■ 33.7900, 36.6733,
99.9055

■ 30.9267, 32.3591,
99.2237

■ 37.5201, 41.6743,
100.6742

■ 28.7582, 28.6361,
98.6193

■ 42.2177, 47.4181,
101.5352

■ 28.7567, 28.6335,
98.6189

■ 47.9721, 53.9563,
102.4940

■ 54.8603, 61.3339,
103.5549

■ 62.9520, 69.5917,
104.7224

■ 72.3105, 78.7671,
106.0001

■ 82.9947, 88.8951,
107.3919

■ 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.



27.1037, 36.6733, 87.0766



33.7900, 36.6733, 99.9055



41.8196, 36.6733, 92.3719

Triad

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



33.7900, 36.6733, 99.9055



50.1638, 36.6733, 23.9675



23.8587, 36.6733, 20.3605

Complementary

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



33.7900, 36.6733, 99.9055



50.6445, 39.1123, 8.0143

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.



28.7133, 36.6733, 12.4152



33.7900, 36.6733, 99.9055



43.9633, 36.6733, 13.8866

Square

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



33.7900, 36.6733, 99.9055



52.0542, 36.6733, 43.0984



35.9460, 36.6733, 10.5877



21.9378, 36.6733, 36.9227

Rectangle

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



33.7900, 36.6733, 99.9055



46.7672, 36.6733, 77.9113



35.9460, 36.6733, 10.5877



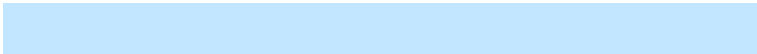
25.1627, 36.6733, 16.8743

Sweetspot

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



33.7913, 36.6744, 99.9056



68.4042, 74.9776, 105.4746



41.5709, 74.0022, 35.3895



13.9355, 15.3543, 22.4791



0.0000, 0.0000, 0.0000



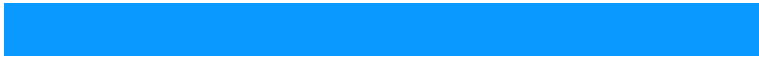
20.3446, 21.4041, 23.3091

Same Dimension

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



33.7913, 36.6744, 99.9056



29.5677, 30.0659, 98.8527



21.4844, 12.0606, 95.8033



17.8834, 19.1384, 23.0015



15.1769, 15.2634, 51.5808



1.5857, 1.7020, 5.0582

Inverse Universe

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



49.6805, 26.5317, 40.5338



47.0999, 23.7811, 32.2416



72.4130, 82.6492, 15.2705



18.4538, 18.1648, 21.0067



24.4488, 12.2688, 16.2797



2.4350, 1.2164, 1.8720

Previews

White Background



This preview shows how the XYZ color 33.7900, 36.6733, 99.9055 looks on a white background.

Color Contrast Check

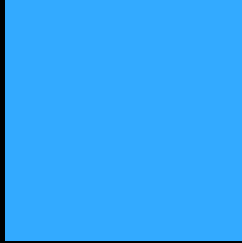
Large Text (above 18pt) WCAG AA × Fail

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 33.7900, 36.6733, 99.9055 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

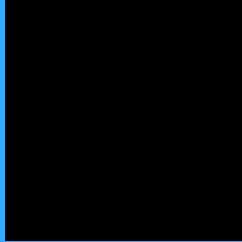
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

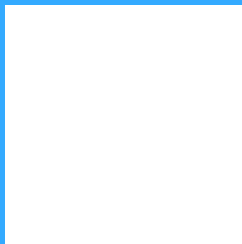
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 33.7900, 36.6733, 99.9055

Background



This preview shows how black text looks on a background with the XYZ color 33.7900, 36.6733, 99.9055.

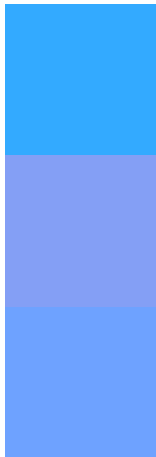


This preview shows how white text looks on a background with the XYZ color 33.7900, 36.6733,

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

33.7900, 36.6733, 99.9055

Protanopia

38.3953, 36.2944, 91.3681

Deuteranopia

37.4007, 36.3757, 99.6577



Tritanopia

26.0589, 36.5376, 56.7179

Trichromacy



Original Color

33.7900, 36.6733, 99.9055

Protanomaly

35.7896, 35.9175, 94.6690

Deuteranomaly

35.6250, 36.2541, 99.7278

Tritanomaly

28.1886, 36.1470, 70.4571

Monochromacy



Original Color

33.7900, 36.6733, 99.9055

Achromatopsia

26.5089, 27.8894, 30.3716

Achromatomaly

26.4734, 29.5582, 49.6574

CSS Examples

Text

The CSS property to change the color of the text to XYZ 33.7900, 36.6733, 99.9055 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, 170, 255)` looks like.

```
.text, #text, p{  
    color:rgb(51, 170, 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, 170, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 170, 255) }
```

Border

The CSS property to change the border of an element to XYZ 33.7900, 36.6733, 99.9055 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, 170, 255) }
```


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

```
.border{ border-color:rgb(51, 170, 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, 170, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 170, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 170, 255);  
box-shadow:4px 4px 4px 4px rgb(51, 170,  
255) }
```

Background

The CSS property to change the background color of an element to XYZ 33.7900, 36.6733, 99.9055 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 170, 255) }
```

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

```
.background{ background-color: rgb(51, 170,  
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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