

Converting Colors

XYZ(16.4537, 27.9924, 86.4499)

Have a look what the booklet for
XYZ(16.4537, 27.9924, 86.4499)
contains.

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Color

**XYZ(29.9547, 34.9814,
86.8347)**

Conversions

Conversions Part 1

Format	Color
Hex	00AAEF
RGB	0, 170, 239
RGB Percent	0%, 67%, 94%
CMY	0.9997, 0.3333, 0.0627
CMYK	1.00, 0.29, 0.00, 0.06
HSL	197°, 100%, 47%
HSV	197°, 100%, 94%
XYZ	29.9547, 34.9814, 86.8347
YIQ	127.0360, -123.4690, -14.5810

Conversions

Conversions Part 2

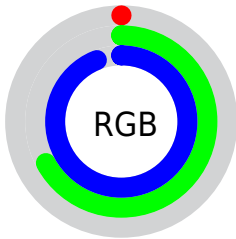
Format	Color
RYB	0, 99, 239
Decimal	43759
CIELab	65.73, -12.04, -44.55
CIELCh	66, 46.148, 254.875
Yxy	34.9814, 0.1974, 0.2305
Android (android.graphics.Color)	4278233839 (0xFF00AAEF)
YUV	127.0360, 55.1983, -111.4106
Hunter-Lab	59.1451, -13.1005, -45.6459

Details

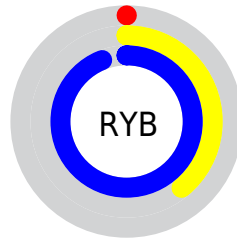
The XYZ color **29.9547, 34.9814, 86.8347** is a dark color, and the websafe version is hex **0099CC**. The color can be described as middle washed azure. A complement of this color would be **37.7295, 22.6154, 2.3785**, and the grayscale version is **20.0392, 21.0828, 22.9592**.

A 20% lighter version of the original color is **51.2819, 64.3216, 104.3202**, and **15.0257, 16.3758, 47.1686** is the 20% darker color. If you saturate the color by 10%, you get **29.9516, 34.9749, 86.8344**, and if you desaturate by 10%, it is **31.6591, 37.8320, 87.2958**.

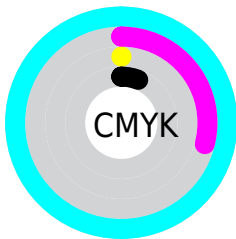
Distribution



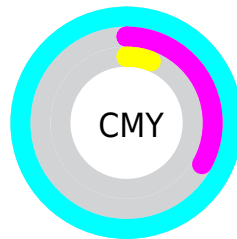
- Red (0%)
- Green (67%)
- Blue (94%)



- Red (0%)
- Yellow (39%)
- Blue (94%)



- Cyan (100%)
- Magenta (29%)
- Yellow (0%)
- Black (6%)



- Cyan (100%)
- Magenta (33%)
- Yellow (6%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 29.9547, 34.9814, 86.8347 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 29.9547, 34.9814, 86.8347 by changing the saturation by 10% instead.

■ 29.9547, 34.9814,
86.8347

■ 29.9547, 34.9814,
86.8347

293.6069,
324.4862, 537.9816

■ 19.9521, 23.6485,
64.7996

■ 58.9777, 67.4570,
144.8306

■ 12.4683, 15.0731,
46.8483

■ 78.7287, 89.3684,
181.6284

■ 7.1379, 8.8707,
32.5622

■ 102.4600,
115.5749, 224.1841

■ 3.5956, 4.6570,
21.5229

■ 130.5368,
146.4608, 272.9165

■ 1.4760, 2.0474,
13.3118

■ 163.3246,
182.4105, 328.2438

■ 0.3094, 0.6348,
7.5104

201.1886,

■ 0.0000, 0.0000,

223.8084, 390.5848

3.7000

244.4942,
271.0388, 460.3579

■ 0.0000, 0.0000,
1.4623

■ 0.0000, 0.0000,
0.1896

■ 29.9547, 34.9814,
86.8347

■ 29.9547, 34.9814,
86.8347

■ 29.9516, 34.9749,
86.8344

■ 31.6591, 37.8320,
87.2958

■ 33.8929, 41.0574,
87.8007

■ 36.8023, 44.7348,
88.3571

■ 40.4738, 48.9105,
88.9696

■ 44.9804, 53.6232,
89.6417

■ 50.3858, 58.9073,
90.3768

■ 56.7472, 64.7937,
91.1777

■ 64.1170, 71.3106,
92.0471

■ 72.5435, 78.4843,
92.9877

Harmonies

Analogous

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



24.8226, 34.9814, 71.0602



29.9547, 34.9814, 86.8347



36.7169, 34.9814, 86.9081

Triad

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



29.9547, 34.9814, 86.8347



47.5428, 34.9814, 29.2680



24.8559, 34.9814, 17.2492

Complementary

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



29.9547, 34.9814, 86.8347



37.7295, 22.6154, 2.3785

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.



30.0062, 34.9814, 12.1622



29.9547, 34.9814, 86.8347



43.3939, 34.9814, 17.3176

Square

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



29.9547, 34.9814, 86.8347



47.5241, 34.9814, 48.7108



36.7759, 34.9814, 12.1820



22.1634, 34.9814, 29.1354

Rectangle

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



29.9547, 34.9814, 86.8347



41.2930, 34.9814, 77.7740



36.7759, 34.9814, 12.1820



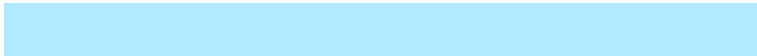
26.3236, 34.9814, 14.8988

Sweetspot

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



29.9560, 34.9826, 86.8356



65.6380, 74.9702, 105.6189



31.9038, 62.1485, 15.7456



13.3534, 15.4113, 22.5208



0.0000, 0.0000, 0.0000



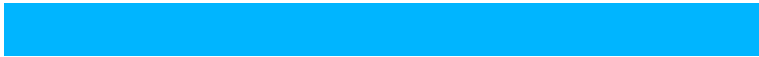
20.3446, 21.4041, 23.3091

Same Dimension

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



29.9560, 34.9826, 86.8356



34.6474, 40.4149, 100.5825



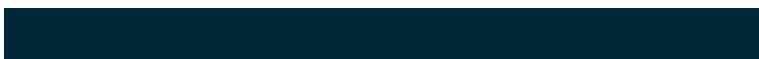
16.8016, 8.6738, 82.4508



15.8393, 17.1128, 20.1899



16.6699, 19.5640, 48.0255



1.4717, 1.7973, 4.0236

Inverse Universe

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



42.8535, 21.2547, 39.8750



49.6176, 24.6110, 46.0460



53.4169, 53.9901, 7.6077



16.2483, 15.9490, 18.8640



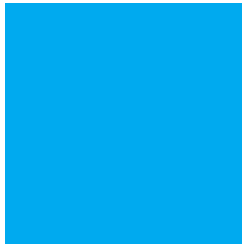
23.7398, 11.7683, 22.3441



2.0178, 0.9962, 2.0845

Previews

White Background



This preview shows how the XYZ color 29.9547, 34.9814, 86.8347 looks on a white background.

Color Contrast Check

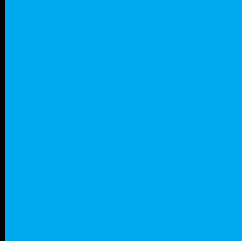
Large Text (above 18pt) WCAG AA × Fail

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 29.9547, 34.9814, 86.8347 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

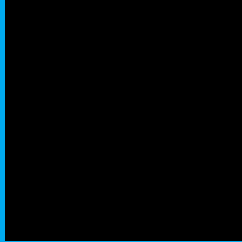
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 29.9547, 34.9814, 86.8347

Background



This preview shows how black text looks on a background with the XYZ color 29.9547, 34.9814, 86.8347.

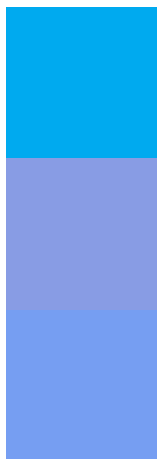


This preview shows how white text looks on a background with the XYZ color 29.9547, 34.9814,

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

29.9547, 34.9814, 86.8347

Protanopia

36.0454, 34.6126, 78.1799

Deuteranopia

35.7251, 34.7161, 88.8224



Tritanopia

24.8196, 34.7684, 54.1180

Trichromacy



Original Color

29.9547, 34.9814, 86.8347



Protanomaly

31.2408, 33.3422, 81.1330



Deuteranomaly

31.6992, 33.6874, 88.0507



Tritanomaly

26.5212, 34.8262, 64.9988

Monochromacy



Original Color

29.9547, 34.9814, 86.8347



Achromatopsia

20.1725, 21.2231, 23.1119



Achromatomaly

20.2837, 24.2214, 40.6519

CSS Examples

Text

The CSS property to change the color of the text to XYZ 29.9547, 34.9814, 86.8347 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(0, 170, 239)` looks like.

```
.text, #text, p{  
    color:rgb(0, 170, 239)  
}
```

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(0, 170, 239) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 170, 239) }
```

Border

The CSS property to change the border of an element to XYZ 29.9547, 34.9814, 86.8347 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(0, 170, 239) }
```


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

```
.border{ border-color:rgb(0, 170, 239) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 170, 239)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 170, 239); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 170, 239);  
box-shadow:4px 4px 4px 4px rgb(0, 170,  
239) }
```

Background

The CSS property to change the background color of an element to XYZ 29.9547, 34.9814, 86.8347 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 170, 239) }
```

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

```
.background{ background-color: rgb(0, 170,  
239) }
```

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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