

Converting Colors

XYZ(8.9077, 14.5527, 66.3437)

Have a look what the booklet for
XYZ(8.9077, 14.5527, 66.3437)
contains.

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Color

**XYZ(19.9849, 20.3446,
67.1636)**

Conversions

Conversions Part 1

Format	Color
Hex	0080D7
RGB	0, 128, 215
RGB Percent	0%, 50%, 84%
CMY	0.9998, 0.4980, 0.1569
CMYK	1.00, 0.40, 0.00, 0.16
HSL	204°, 100%, 42%
HSV	204°, 100%, 84%
XYZ	19.9849, 20.3446, 67.1636
YIQ	99.6460, -104.2150, -0.0790

Conversions

Conversions Part 2

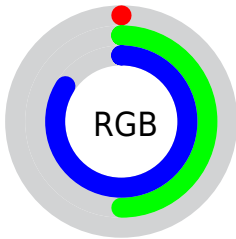
Format	Color
RYB	0, 80, 215
Decimal	32983
CIELab	52.22, 3.25, -52.62
CIElCh	52, 52.722, 273.533
Yxy	20.3446, 0.1859, 0.1893
Android (android.graphics.Color)	4278223063 (0xFF0080D7)
YUV	99.6460, 56.8695, -87.3895
Hunter-Lab	45.1050, 0.1552, -56.7123

Details

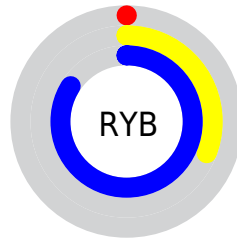
The XYZ color **19.9849, 20.3446, 67.1636** is a dark color, and the websafe version is hex **0099FF**. The color can be described as dark washed azure. A complement of this color would be **31.4372, 21.2721, 2.4505**, and the grayscale version is **11.9065, 12.5265, 13.6414**.

A 20% lighter version of the original color is **39.7381, 42.6292, 100.7416**, and **9.2138, 8.2754, 34.3694** is the 20% darker color. If you saturate the color by 10%, you get **19.9824, 20.3394, 67.1632**, and if you desaturate by 10%, it is **21.4904, 22.8788, 67.5739**.

Distribution



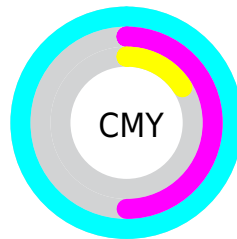
- Red (0%)
- Green (50%)
- Blue (84%)



- Red (0%)
- Yellow (31%)
- Blue (84%)



- Cyan (100%)
- Magenta (40%)
- Yellow (0%)
- Black (16%)



- Cyan (100%)
- Magenta (50%)
- Yellow (16%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 19.9849, 20.3446, 67.1636 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 19.9849, 20.3446, 67.1636 by changing the saturation by 10% instead.

■ 19.9849, 20.3446,
67.1636

■ 19.9849, 20.3446,
67.1636

244.6685,
253.7746, 469.0442

■ 12.4923, 12.6458,
48.7552

■ 42.8960, 43.9942,
116.7977

■ 7.1544, 7.1851,
34.0611

■ 59.0452, 60.7137,
148.8604

■ 3.6061, 3.5781,
22.6628

■ 78.8106, 81.2090,
186.3116

■ 1.4818, 1.4405,
14.1417

■ 102.5576,
105.8643, 229.5699

■ 0.3134, 0.2463,
8.0794

■ 130.6515,
135.0642, 279.0537

■ 0.0000, 0.0000,
4.0573

163.4577,

■ 0.0000, 0.0000,

169.1929, 335.1817

1.6568

201.3416,
208.6349, 398.3724

■ 0.0000, 0.0000,
0.3309

■ 0.0000, 0.0000,
0.0000

■ 19.9849, 20.3446,
67.1636

■ 19.9849, 20.3446,
67.1636

■ 19.9824, 20.3394,
67.1632

■ 21.4904, 22.8788,
67.5739

■ 23.4517, 25.7958,
68.0335

■ 25.9896, 29.1615,
68.5494

■ 29.1717, 33.0139,
69.1253

■ 33.0555, 37.3858,
69.7645

■ 37.6914, 42.3063,
70.4699

■ 43.1248, 47.8017,
71.2442

■ 49.3974, 53.8965,
72.0900

■ 56.5477, 60.6133,
73.0096

Harmonies

Analogous

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



15.0622, 20.3446, 60.9449



19.9849, 20.3446, 67.1636



25.6700, 20.3446, 57.4117

Triad

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



19.9849, 20.3446, 67.1636



29.3665, 20.3446, 9.4355



11.4410, 20.3446, 11.3520

Complementary

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



19.9849, 20.3446, 67.1636



31.4372, 21.2721, 2.4505

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.



14.1419, 20.3446, 5.4443



19.9849, 20.3446, 67.1636



24.3524, 20.3446, 4.7554

Square

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



19.9849, 20.3446, 67.1636



31.6858, 20.3446, 20.3667



18.7031, 20.3446, 3.7389



10.7031, 20.3446, 24.0383

Rectangle

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



19.9849, 20.3446, 67.1636



28.9647, 20.3446, 44.9903



18.7031, 20.3446, 3.7389



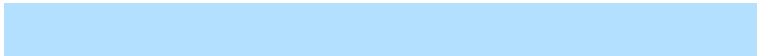
12.1210, 20.3446, 8.7457

Sweetspot

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



19.9858, 20.3452, 67.1641



63.1906, 70.0753, 104.8031



25.9823, 49.2740, 16.9522



12.7688, 14.2420, 22.3259



0.0000, 0.0000, 0.0000



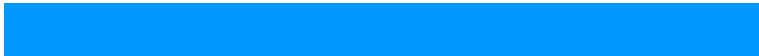
20.3446, 21.4041, 23.3091

Same Dimension

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



19.9858, 20.3452, 67.1641



29.2441, 29.6082, 98.7814



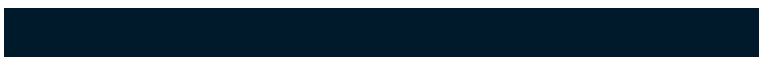
12.5448, 5.4633, 64.6838



12.3510, 13.2255, 15.8393



12.0582, 12.3782, 40.2069



0.8076, 0.9071, 2.4518

Inverse Universe

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



31.9214, 16.0068, 21.8295



46.8903, 23.5201, 31.6838



47.2068, 52.8113, 7.7070



12.7304, 12.5437, 14.5205



19.1453, 9.5944, 13.3351



1.1953, 0.5949, 1.0177

Previews

White Background



This preview shows how the XYZ color 19.9849, 20.3446, 67.1636 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 19.9849, 20.3446, 67.1636 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

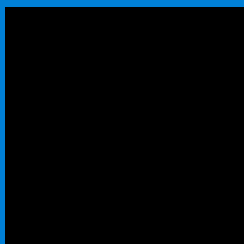
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

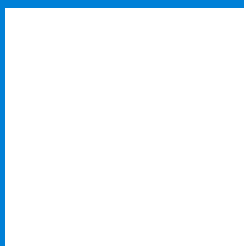
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 19.9849, 20.3446, 67.1636

Background



This preview shows how black text looks on a background with the XYZ color 19.9849, 20.3446, 67.1636.



This preview shows how white text looks on a background with the XYZ color 19.9849, 20.3446,

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

19.9849, 20.3446, 67.1636

Protanopia

22.1530, 20.2550, 62.4165

Deuteranopia

21.1709, 20.5577, 67.8179



Tritanopia

14.3549, 20.2835, 30.7623

Trichromacy



Original Color

19.9849, 20.3446, 67.1636

Protanomaly

20.5411, 19.9307, 64.3924

Deuteranomaly

20.5797, 20.4437, 67.8271

Tritanomaly

15.9715, 20.0288, 42.0539

Monochromacy



Original Color

19.9849, 20.3446, 67.1636

Achromatopsia

12.1130, 12.7438, 13.8780

Achromatomaly

12.5728, 14.1948, 27.6684

CSS Examples

Text

The CSS property to change the color of the text to XYZ 19.9849, 20.3446, 67.1636 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, 128, 215)` looks like.

```
.text, #text, p{  
    color:rgb(0, 128, 215)  
}
```

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, 128, 215) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 128, 215) }
```

Border

The CSS property to change the border of an element to XYZ 19.9849, 20.3446, 67.1636 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, 128, 215) }
```


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

```
.border{ border-color:rgb(0, 128, 215) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 128, 215)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 128, 215); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 128, 215);  
box-shadow:4px 4px 4px 4px rgb(0, 128,  
215) }
```

Background

The CSS property to change the background color of an element to XYZ 19.9849, 20.3446, 67.1636 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 128, 215) }
```

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

```
.background{ background-color: rgb(0, 128,  
215) }
```

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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