

Converting Colors

XYZ(2.9738, 12.4072, 66.3200)

Have a look what the booklet for
XYZ(2.9738, 12.4072, 66.3200)
contains.

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Color

**XYZ(20.5170, 21.4088,
67.3409)**

Conversions

Conversions Part 1

Format	Color
Hex	0084D7
RGB	0, 132, 215
RGB Percent	0%, 52%, 84%
CMY	0.9998, 0.4823, 0.1569
CMYK	1.00, 0.39, 0.00, 0.16
HSL	203°, 100%, 42%
HSV	203°, 100%, 84%
XYZ	20.5170, 21.4088, 67.3409
YIQ	101.9940, -105.3150, -2.1710

Conversions

Conversions Part 2

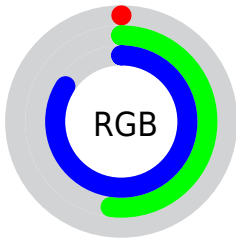
Format	Color
R _Y B	0, 82, 215
Decimal	34007
CIE Lab	53.39, 0.82, -50.76
CIE LCh	53, 50.762, 270.930
Yxy	21.4088, 0.1878, 0.1959
Android (android.graphics.Color)	4278224087 (0xFF0084D7)
YUV	101.9940, 55.7120, -89.4487
Hunter-Lab	46.2696, -1.8210, -53.9020

Details

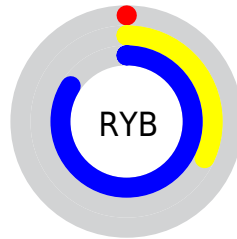
The XYZ color **20.5170, 21.4088, 67.3409** is a dark color, and the websafe version is hex **0099FF**. The color can be described as dark washed azure. A complement of this color would be **31.1221, 20.6419, 2.3455**, and the grayscale version is **12.5110, 13.1625, 14.3340**.

A 20% lighter version of the original color is **40.8785, 44.7427, 101.0894**, and **9.4384, 8.7246, 34.4443** is the 20% darker color. If you saturate the color by 10%, you get **20.5144, 21.4036, 67.3405**, and if you desaturate by 10%, it is **22.0094, 23.9167, 67.7468**.

Distribution



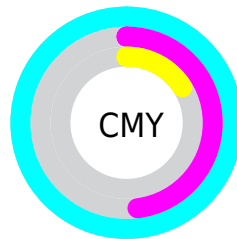
- Red (0%)
- Green (52%)
- Blue (84%)



- Red (0%)
- Yellow (32%)
- Blue (84%)



- Cyan (100%)
- Magenta (39%)
- Yellow (0%)
- Black (16%)



- Cyan (100%)
- Magenta (48%)
- Yellow (16%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 20.5170, 21.4088, 67.3409 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 20.5170, 21.4088, 67.3409 by changing the saturation by 10% instead.

■ 20.5170, 21.4088,
67.3409

■ 20.5170, 21.4088,
67.3409

247.4809,
259.4431, 469.6917

■ 12.8818, 13.4231,
48.8984

■ 43.7797, 45.7669,
117.0540

■ 7.4237, 7.7206,
34.1738

■ 60.1379, 62.9081,
149.1617

■ 3.7771, 3.9167,
22.7487

■ 80.1345, 83.8700,
186.6616

■ 1.5768, 1.6271,
14.2045

■ 104.1348,
109.0370, 229.9721

■ 0.3772, 0.3757,
8.1227

■ 132.5043,
138.7934, 279.5118

■ 0.0000, 0.0000,
4.0847

165.6082,

■ 0.0000, 0.0000,

173.5236, 335.6993

1.6719

203.8120,
213.6120, 398.9531

■ 0.0000, 0.0000,
0.3414

■ 0.0000, 0.0000,
0.0000

■ 20.5170, 21.4088,
67.3409

■ 20.5170, 21.4088,
67.3409

■ 20.5144, 21.4036,
67.3405

■ 22.0094, 23.9167,
67.7468

■ 23.9494, 26.7912,
68.1994

■ 26.4576, 30.0974,
68.7054

■ 29.6014, 33.8730,
69.2684

■ 33.4377, 38.1501,
69.8918

■ 38.0169, 42.9570,
70.5783

■ 43.3840, 48.3198,
71.3305

■ 49.5804, 54.2622,
72.1509

■ 56.6444, 60.8064,
73.0418

Harmonies

Analogous

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



15.7184, 21.4088, 60.0478



20.5170, 21.4088, 67.3409



26.1513, 21.4088, 59.1475

Triad

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



20.5170, 21.4088, 67.3409



30.5916, 21.4088, 11.1444



12.5703, 21.4088, 11.6621

Complementary

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



20.5170, 21.4088, 67.3409



31.1221, 20.6419, 2.3455

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.



15.4745, 21.4088, 5.9986



20.5170, 21.4088, 67.3409



25.8086, 21.4088, 5.8059

Square

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



20.5170, 21.4088, 67.3409



32.5641, 21.4088, 22.8324



20.1808, 21.4088, 4.4497



11.6482, 21.4088, 23.7953

Rectangle

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



20.5170, 21.4088, 67.3409



29.4979, 21.4088, 47.4569



20.1808, 21.4088, 4.4497



13.3185, 21.4088, 9.1652

Sweetspot

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



20.5179, 21.4095, 67.3415



63.5749, 70.8439, 104.9312



25.8414, 49.2176, 16.2106



12.8602, 14.4250, 22.3564



0.0000, 0.0000, 0.0000



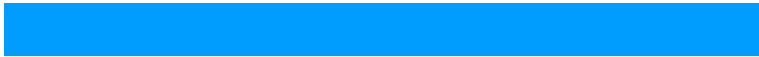
20.3446, 21.4041, 23.3091

Same Dimension

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



20.5179, 21.4095, 67.3415



30.0283, 31.1767, 99.0428



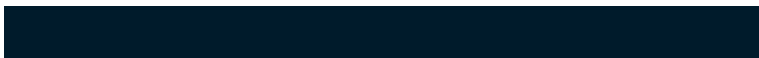
12.6169, 5.6075, 64.7078



12.3708, 13.2651, 15.8459



12.3756, 13.0129, 40.3126



0.8256, 0.9431, 2.4578

Inverse Universe

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



32.1900, 16.1143, 23.2439



47.2861, 23.6784, 33.7684



46.4217, 51.2411, 7.4454



12.7404, 12.5476, 14.5731



19.3055, 9.6585, 14.1785



1.2044, 0.5985, 1.0655

Previews

White Background



This preview shows how the XYZ color 20.5170, 21.4088, 67.3409 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 20.5170, 21.4088, 67.3409 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

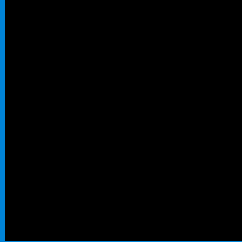
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 20.5170, 21.4088, 67.3409

Background



This preview shows how black text looks on a background with the XYZ color 20.5170, 21.4088, 67.3409.



This preview shows how white text looks on a background with the XYZ color 20.5170, 21.4088,

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

20.5170, 21.4088, 67.3409

Protanopia

23.2089, 21.3491, 62.5720

Deuteranopia

22.1004, 21.4203, 67.9355



Tritanopia

15.1108, 21.2841, 32.5900

Trichromacy



Original Color

20.5170, 21.4088, 67.3409

Protanomaly

21.2107, 20.8426, 64.5331

Deuteranomaly

21.0816, 21.0897, 67.9253

Tritanomaly

16.7285, 21.2330, 43.2611

Monochromacy



Original Color

20.5170, 21.4088, 67.3409

Achromatopsia

12.6291, 13.2868, 14.4694

Achromatomaly

13.0430, 14.9172, 28.1785

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.5170, 21.4088, 67.3409 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, 132, 215)` looks like.

```
.text, #text, p{  
    color:rgb(0, 132, 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, 132, 215) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 132, 215) }
```

Border

The CSS property to change the border of an element to XYZ 20.5170, 21.4088, 67.3409 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, 132, 215) }
```


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

```
.border{ border-color:rgb(0, 132, 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, 132, 215)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 132, 215); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 132, 215);  
box-shadow:4px 4px 4px 4px rgb(0, 132,  
215) }
```

Background

The CSS property to change the background color of an element to XYZ 20.5170, 21.4088, 67.3409 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 132, 215) }
```

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

```
.background{ background-color: rgb(0, 132,  
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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