

Converting Colors

XYZ(21.8273, 22.6353, 67.5148)

Have a look what the booklet for
XYZ(21.8273, 22.6353, 67.5148)
contains.

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Color

**XYZ(21.8846, 22.7265,
67.5232)**

Conversions

Conversions Part 1

Format	Color
Hex	2A87D7
RGB	42, 135, 215
RGB Percent	16%, 53%, 84%
CMY	0.8352, 0.4706, 0.1569
CMYK	0.80, 0.37, 0.00, 0.16
HSL	208°, 68%, 50%
HSV	208°, 80%, 84%
XYZ	21.8846, 22.7265, 67.5232
YIQ	116.3130, -81.1080, 5.1640

Conversions

Conversions Part 2

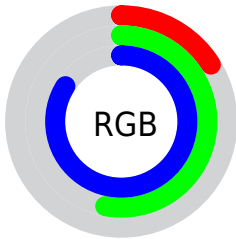
Format	Color
R _Y B	42, 102, 215
Decimal	2787287
CIE Lab	54.79, 1.33, -48.50
CIE LCh	55, 48.521, 271.571
Yxy	22.7265, 0.1952, 0.2027
Android (android.graphics.Color)	4280977367 (0xFF2A87D7)
YUV	116.3130, 48.6527, -65.1725
Hunter-Lab	47.6723, -1.4838, -50.6079

Details

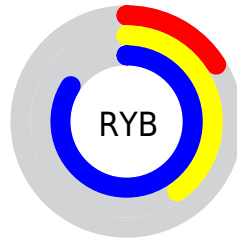
The XYZ color **21.8846, 22.7265, 67.5232** is a dark color, and the websafe version is hex **0099FF**. The color can be described as dark washed azure. A complement of this color would be **35.4043, 28.5375, 5.8343**, and the grayscale version is **16.5714, 17.4344, 18.9861**.

A 20% lighter version of the original color is **43.1035, 46.8313, 101.3753**, and **9.6730, 9.1936, 34.5224** is the 20% darker color. If you saturate the color by 10%, you get **19.9059, 19.7425, 67.0520**, and if you desaturate by 10%, it is **24.4658, 26.2140, 68.0608**.

Distribution



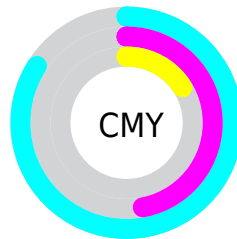
- Red (16%)
- Green (53%)
- Blue (84%)



- Red (16%)
- Yellow (40%)
- Blue (84%)



- Cyan (80%)
- Magenta (37%)
- Yellow (0%)
- Black (16%)



- Cyan (84%)
- Magenta (47%)
- Yellow (16%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 21.8846, 22.7265, 67.5232 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 21.8846, 22.7265, 67.5232 by changing the saturation by 10% instead.

■ 21.8846, 22.7265,
67.5232

■ 21.8846, 22.7265,
67.5232

254.5867,
266.3171, 470.3569

■ 13.8883, 14.3917,
49.0457

■ 46.0355, 47.9438,
117.3175

■ 8.1242, 8.3936,
34.2899

■ 62.9207, 65.5952,
149.4714

■ 4.2270, 4.3478,
22.8372

■ 83.4996, 87.1208,
187.0212

■ 1.8313, 1.8700,
14.2692

■ 108.1376,
112.9051, 230.3854

■ 0.5364, 0.5302,
8.1672

■ 137.1999,
143.3325, 279.9825

■ 0.0000, 0.0000,
4.1128

171.0520,

■ 0.0000, 0.0000,

178.7874, 336.2311

1.6874

210.0591,
219.6541, 399.5497

■ 0.0000, 0.0000,
0.3521

■ 0.0000, 0.0000,
0.0000

■ 21.8846, 22.7265,
67.5232

■ 21.8846, 22.7265,
67.5232

■ 19.9059, 19.7425,
67.0520

■ 24.4658, 26.2140,
68.0608

■ 18.4618, 17.2982,
66.6563

■ 27.7163, 30.2436,
68.6673

■ 31.6959, 34.8514,
69.3469

■ 36.4564, 40.0687,
70.1031

■ 42.0446, 45.9241,
70.9388

■ 48.5031, 52.4441,
71.8568

■ 55.8717, 59.6533,
72.8600

■ 64.1874, 67.5750,
73.9507

■ 73.4851, 76.2313,
75.1315

Harmonies

Analogous

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



17.0571, 22.7265, 60.8294



21.8846, 22.7265, 67.5232



27.4576, 22.7265, 59.3676

Triad

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



21.8846, 22.7265, 67.5232



31.6237, 22.7265, 12.2869



13.7469, 22.7265, 13.1867

Complementary

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



21.8846, 22.7265, 67.5232



35.4043, 28.5375, 5.8343

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.



16.6424, 22.7265, 7.1561



21.8846, 22.7265, 67.5232



26.8874, 22.7265, 6.8080

Square

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



21.8846, 22.7265, 67.5232



33.6260, 22.7265, 23.9450



21.3196, 22.7265, 5.4148



12.8506, 22.7265, 25.5632

Rectangle

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



21.8846, 22.7265, 67.5232



30.7208, 22.7265, 47.9943



21.3196, 22.7265, 5.4148



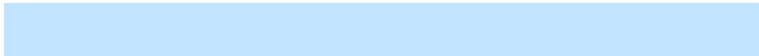
14.4921, 22.7265, 10.5613

Sweetspot

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



21.8855, 22.7272, 67.5238



67.6331, 73.4354, 105.2176



28.6378, 50.4465, 25.9524



13.7504, 14.9839, 22.4174



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.



21.8855, 22.7272, 67.5238



27.6130, 26.2039, 98.2102



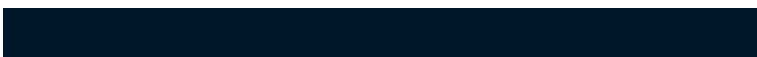
14.3906, 7.7375, 65.0255



12.2899, 13.1033, 15.8190



11.1495, 10.5607, 39.9039



0.7549, 0.8019, 2.4343

Inverse Universe

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



33.2264, 17.8536, 24.6170



46.1017, 23.3375, 27.1217



50.5988, 58.9266, 10.8992



12.6996, 12.5313, 14.3581



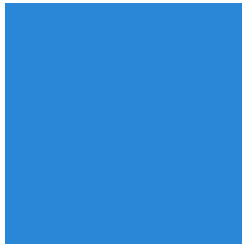
18.6866, 9.4110, 10.9196



1.1687, 0.5843, 0.8777

Previews

White Background



This preview shows how the XYZ color 21.8846, 22.7265, 67.5232 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 21.8846, 22.7265, 67.5232 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

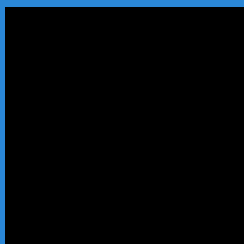
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

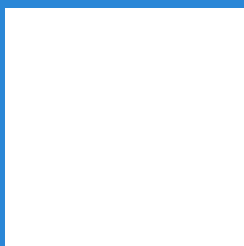
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 21.8846, 22.7265, 67.5232

Background



This preview shows how black text looks on a background with the XYZ color 21.8846, 22.7265, 67.5232.



This preview shows how white text looks on a background with the XYZ color 21.8846, 22.7265,

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

21.8846, 22.7265, 67.5232

Protanopia

24.2499, 22.6451, 62.7673

Deuteranopia

23.3350, 22.6463, 68.1070



Tritanopia

16.1261, 22.6511, 34.9747

Trichromacy



Original Color

21.8846, 22.7265, 67.5232

Protanomaly

23.0161, 22.5554, 64.7686

Deuteranomaly

22.6325, 22.4845, 68.1128

Tritanomaly

17.6577, 22.3256, 44.9736

Monochromacy



Original Color

21.8846, 22.7265, 67.5232

Achromatopsia

16.6002, 17.4647, 19.0191

Achromatomaly

16.8703, 18.5568, 32.3984

CSS Examples

Text

The CSS property to change the color of the text to XYZ 21.8846, 22.7265, 67.5232 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(42, 135, 215)` looks like.

```
.text, #text, p{  
    color:rgb(42, 135, 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(42, 135, 215) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(42, 135, 215) }
```

Border

The CSS property to change the border of an element to XYZ 21.8846, 22.7265, 67.5232 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(42, 135, 215) }
```


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

```
.border{ border-color:rgb(42, 135, 215) }
```

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

Here you see how a box with a 4 pixel `rgb(42, 135, 215)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(42, 135, 215); -webkit-box-  
shadow:4px 4px 4px 4px rgb(42, 135, 215);  
box-shadow:4px 4px 4px 4px rgb(42, 135,  
215) }
```

Background

The CSS property to change the background color of an element to XYZ 21.8846, 22.7265, 67.5232 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(42, 135, 215) }
```

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

```
.background{ background-color: rgb(42, 135,  
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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