

Converting Colors

XYZ(12.0235, 25.5046, 42.0316)

Have a look what the booklet for
XYZ(12.0235, 25.5046, 42.0316)
contains.

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Color

**XYZ(20.7977, 30.1370,
42.2570)**

Conversions

Conversions Part 1

Format	Color
Hex	00A6A9
RGB	0, 166, 169
RGB Percent	0%, 65%, 66%
CMY	0.9999, 0.3490, 0.3373
CMYK	1.00, 0.02, 0.00, 0.34
HSL	181°, 100%, 33%
HSV	181°, 100%, 66%
XYZ	20.7977, 30.1370, 42.2570
YIQ	116.7080, -99.8990, -34.2590

Conversions

Conversions Part 2

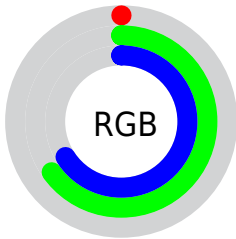
Format	Color
RYB	0, 84, 169
Decimal	42665
CIELab	61.77, -33.93, -11.79
CIELCh	62, 35.919, 199.169
Yxy	30.1370, 0.2232, 0.3234
Android (android.graphics.Color)	4278232745 (0xFF00A6A9)
YUV	116.7080, 25.7800, -102.3529
Hunter-Lab	54.8972, -28.4456, -7.2103

Details

The XYZ color **20.7977, 30.1370, 42.2570** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **16.3956, 8.5011, 0.7778**, and the grayscale version is **16.7669, 17.6401, 19.2100**.

A 20% lighter version of the original color is **44.2951, 60.0573, 79.7786**, and **9.1160, 13.0946, 18.8767** is the 20% darker color. If you saturate the color by 10%, you get **20.7981, 30.1376, 42.2577**, and if you desaturate by 10%, it is **21.0828, 30.3656, 42.2867**.

Distribution



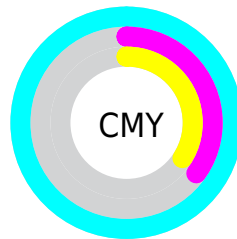
- Red (0%)
- Green (65%)
- Blue (66%)



- Red (0%)
- Yellow (33%)
- Blue (66%)



- Cyan (100%)
- Magenta (2%)
- Yellow (0%)
- Black (34%)



- Cyan (100%)
- Magenta (35%)
- Yellow (34%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 20.7977, 30.1370, 42.2570 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 20.7977, 30.1370, 42.2570 by changing the saturation by 10% instead.

■ 20.7977, 30.1370,
42.2570

■ 20.7977, 30.1370,
42.2570

■ 248.9535,
302.5425, 371.3782

■ 13.0878, 19.9426,
28.9755

■ 44.2444, 59.8788,
79.8627

■ 7.5665, 12.3533,
18.8169

■ 60.7120, 80.1949,
105.0240

■ 3.8683, 6.9848,
11.3626

■ 80.8295, 104.6538,
134.9824

■ 1.6279, 3.4526,
6.1940

■ 104.9623,
133.6398, 170.1563

■ 0.4105, 1.3723,
2.8927

■ 133.4757,
167.5372, 210.9642

■ 0.0000, 0.1962,
1.0401

■ 166.7352,

■ 0.0000, 0.0000,

206.7306, 257.8249

0.0000

205.1060,
251.6042, 311.1567

■ 20.7977, 30.1370,
42.2570

■ 20.7977, 30.1370,
42.2570

■ 20.7981, 30.1376,
42.2577

■ 21.0828, 30.3656,
42.2867

■ 21.5618, 30.6938,
42.3248

■ 22.3143, 31.1632,
42.3757

■ 23.3759, 31.7921,
42.4411

■ 24.7768, 32.5960,
42.5225

■ 26.5435, 33.5888,
42.6210

■ 28.7000, 34.7827,
42.7378

■ 31.2683, 36.1891,
42.8739

■ 34.2687, 37.8184,
43.0302

Harmonies

Analogous

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



20.5190, 30.1370, 28.1042



20.7977, 30.1370, 42.2570



23.0360, 30.1370, 57.0843

Triad

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



20.7977, 30.1370, 42.2570



36.1914, 30.1370, 53.2515



30.4096, 30.1370, 13.1305

Complementary

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



20.7977, 30.1370, 42.2570



16.3956, 8.5011, 0.7778

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.



35.0961, 30.1370, 16.6321



20.7977, 30.1370, 42.2570



38.6731, 30.1370, 38.0228

Square

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



20.7977, 30.1370, 42.2570



31.7754, 30.1370, 64.5558



38.2514, 30.1370, 24.8944



25.7260, 30.1370, 13.6768

Rectangle

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



20.7977, 30.1370, 42.2570



25.4932, 30.1370, 64.1461



38.2514, 30.1370, 24.8944



32.0450, 30.1370, 13.8232

Sweetspot

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



20.7986, 30.1381, 42.2577



51.1648, 62.1638, 76.5272



14.2043, 28.3829, 4.8117



10.7972, 13.3533, 16.6605



80.6108, 84.8088, 92.3568



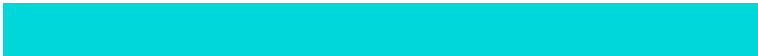
14.7206, 15.4872, 16.8656

Same Dimension

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



20.7986, 30.1381, 42.2577



37.2301, 53.9391, 75.6741



10.1569, 8.8547, 38.7105



7.7360, 8.5089, 9.6530



15.5049, 22.4699, 31.4954



0.3807, 0.5536, 0.7674

Inverse Universe

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



23.2460, 11.1892, 37.0120



41.6220, 20.0339, 66.2382



19.7980, 15.3059, 1.9119



7.8361, 7.6643, 9.4540



17.3267, 8.3394, 27.5958



0.4233, 0.2036, 0.6806

Previews

White Background



This preview shows how the XYZ color 20.7977, 30.1370, 42.2570 looks on a white background.

Color Contrast Check

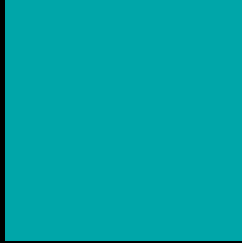
Large Text (above 18pt) WCAG AA × Fail

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 20.7977, 30.1370, 42.2570 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

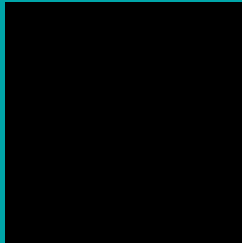
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 20.7977, 30.1370, 42.2570

Background



This preview shows how black text looks on a background with the XYZ color 20.7977, 30.1370, 42.2570.



This preview shows how white text looks on a background with the XYZ color 20.7977, 30.1370,

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

20.7977, 30.1370, 42.2570

Protanopia

28.7323, 29.5977, 36.0969

Deuteranopia

30.5279, 29.8861, 44.2040



Tritanopia

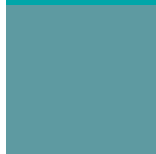
21.9430, 30.3576, 46.8226

Trichromacy



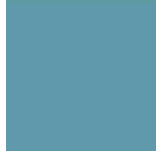
Original Color

20.7977, 30.1370, 42.2570



Protanomaly

22.6047, 28.0641, 37.9437



Deuteranomaly

23.6615, 28.2478, 43.2350



Tritanomaly

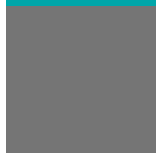
21.4242, 30.1246, 45.2429

Monochromacy



Original Color

20.7977, 30.1370, 42.2570



Achromatopsia

16.9083, 17.7888, 19.3720



Achromatomaly

15.9319, 20.5614, 26.4216

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.7977, 30.1370, 42.2570 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, 166, 169)` looks like.

```
.text, #text, p{  
    color:rgb(0, 166, 169)  
}
```

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, 166, 169) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 166, 169) }
```

Border

The CSS property to change the border of an element to XYZ 20.7977, 30.1370, 42.2570 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, 166, 169) }
```


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

```
.border{ border-color:rgb(0, 166, 169) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 166, 169)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 166, 169); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 166, 169);  
box-shadow:4px 4px 4px 4px rgb(0, 166,  
169) }
```

Background

The CSS property to change the background color of an element to XYZ 20.7977, 30.1370, 42.2570 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 166, 169) }
```

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

```
.background{ background-color: rgb(0, 166,  
169) }
```

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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