

Converting Colors

XYZ(21.8456, 32.3003, 31.4701)

Have a look what the booklet for
XYZ(21.8456, 32.3003, 31.4701)
contains.

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Color

**XYZ(21.8437, 32.2977,
31.4684)**

Conversions

Conversions Part 1

Format	Color
Hex	42AB90
RGB	66, 171, 144
RGB Percent	26%, 67%, 56%
CMY	0.7412, 0.3294, 0.4353
CMYK	0.61, 0.00, 0.16, 0.33
HSL	165°, 44%, 46%
HSV	165°, 61%, 67%
XYZ	21.8437, 32.2977, 31.4684
YIQ	136.5270, -53.9130, -30.6570

Conversions

Conversions Part 2

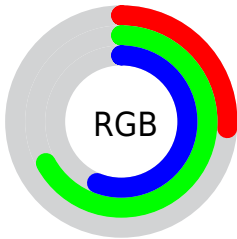
Format	Color
RYB	66, 126, 171
Decimal	4369296
CIELab	63.59, -36.79, 4.99
CIElCh	64, 37.123, 172.276
Yxy	32.2977, 0.2552, 0.3773
Android (android.graphics.Color)	4282559376 (0xFF42AB90)
YUV	136.5270, 3.6842, -61.8522
Hunter-Lab	56.8311, -30.8458, 6.9518

Details

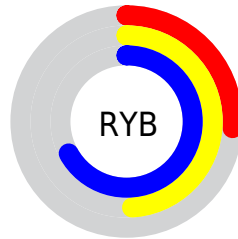
The XYZ color **21.8437, 32.2977, 31.4684** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **20.7196, 13.3454, 11.8409**, and the grayscale version is **23.6014, 24.8305, 27.0404**.

A 20% lighter version of the original color is **45.9743, 63.3005, 63.2212**, and **8.4988, 13.7650, 12.7987** is the 20% darker color. If you saturate the color by 10%, you get **20.5299, 31.6593, 29.6870**, and if you desaturate by 10%, it is **23.5168, 33.1214, 33.3364**.

Distribution



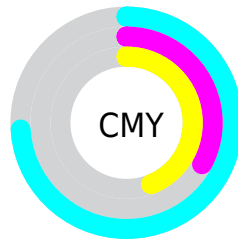
- Red (26%)
- Green (67%)
- Blue (56%)



- Red (26%)
- Yellow (49%)
- Blue (67%)



- Cyan (61%)
- Magenta (0%)
- Yellow (16%)
- Black (33%)



- Cyan (74%)
- Magenta (33%)
- Yellow (44%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 21.8437, 32.2977, 31.4684 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 21.8437, 32.2977, 31.4684 by changing the saturation by 10% instead.

■ 21.8437, 32.2977,
31.4684

■ 21.8437, 32.2977,
31.4684

254.3767,
312.4731, 323.1082

■ 13.8581, 21.5890,
20.6943

■ 45.9683, 63.2775,
63.0650

■ 8.1030, 13.5552,
12.7117

■ 62.8380, 84.3174,
84.7245

■ 4.2133, 7.8120,
7.1019

■ 83.3997, 109.5698,
110.8497

■ 1.8235, 3.9749,
3.4465

■ 108.0189,
139.4190, 141.8590

■ 0.5318, 1.6595,
1.3269

■ 137.0608,
174.2496, 178.1710

■ 0.0000, 0.3972,
0.0837

170.8908,

■ 0.0000, 0.0000,

214.4459, 220.2041

0.0000

209.8743,
260.3923, 268.3770

■ 21.8437, 32.2977,
31.4684

■ 21.8437, 32.2977,
31.4684

■ 20.5299, 31.6593,
29.6870

■ 23.5168, 33.1214,
33.3364

■ 19.5408, 31.1860,
27.9876

■ 25.5745, 34.1411,
35.2909

■ 18.8395, 30.8595,
26.3685

■ 28.0429, 35.3709,
37.3344

■ 18.3961, 30.6600,
25.0368

■ 30.9449, 36.8227,
39.4688

■ 34.3017, 38.5074,
41.6958

■ 38.1333, 40.4352,
44.0170

■ 42.4582, 42.6158,
46.4341

■ 47.2942, 45.0582,
48.9484

■ 52.6578, 47.7709,
51.5615

Harmonies

Analogous

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



23.4708, 32.2977, 20.4345



21.8437, 32.2977, 31.4684



22.3686, 32.2977, 47.1332

Triad

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



21.8437, 32.2977, 31.4684



34.6328, 32.2977, 68.7417



37.2083, 32.2977, 17.0776

Complementary

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



21.8437, 32.2977, 31.4684



20.7196, 13.3454, 11.8409

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.



40.8744, 32.2977, 25.4192



21.8437, 32.2977, 31.4684



39.2746, 32.2977, 55.6803

Square

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



21.8437, 32.2977, 31.4684



29.3779, 32.2977, 71.7086



41.6702, 32.2977, 39.1440



32.0570, 32.2977, 13.7887

Rectangle

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



21.8437, 32.2977, 31.4684



23.8988, 32.2977, 58.0726



41.6702, 32.2977, 39.1440



38.6780, 32.2977, 19.2491

Sweetspot

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



21.8446, 32.2990, 31.4692



57.1841, 66.8302, 71.8962



20.1633, 31.9002, 10.2494



12.3889, 14.7212, 15.7840



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123

Same Dimension

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



21.8446, 32.2990, 31.4692



36.0087, 56.3333, 51.9597



19.9545, 24.8119, 42.2670



8.1470, 9.0364, 9.7992



13.8896, 23.1211, 18.9902



0.4070, 0.6514, 0.6366

Inverse Universe

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



20.7196, 13.3454, 11.8409



33.8706, 19.4181, 13.9937



21.4774, 16.4491, 7.1977



8.0866, 8.0479, 8.7670



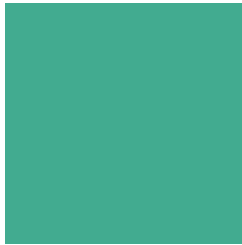
13.0217, 6.6712, 2.4939



0.3845, 0.1945, 0.1868

Previews

White Background



This preview shows how the XYZ color 21.8437, 32.2977, 31.4684 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 21.8437, 32.2977, 31.4684 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

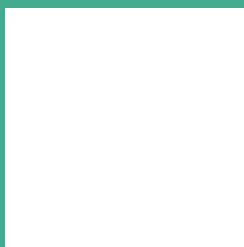
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 21.8437, 32.2977, 31.4684

Background



This preview shows how black text looks on a background with the XYZ color 21.8437, 32.2977, 31.4684.



This preview shows how white text looks on a background with the XYZ color 21.8437, 32.2977,

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

21.8437, 32.2977, 31.4684

Protanopia

30.0285, 31.6513, 27.0809

Deuteranopia

32.3769, 31.7848, 32.8624



Tritanopia

25.0812, 32.2326, 47.5474

Trichromacy



Original Color

21.8437, 32.2977, 31.4684

Protanomaly

25.5898, 31.0669, 28.6925

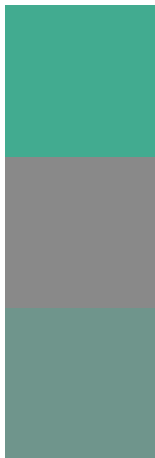
Deuteranomaly

26.6706, 30.7891, 32.1410

Tritanomaly

23.7872, 32.2543, 41.0484

Monochromacy



Original Color

21.8437, 32.2977, 31.4684

Achromatopsia

23.7775, 25.0158, 27.2422

Achromatomaly

22.0366, 26.7678, 28.8162

CSS Examples

Text

The CSS property to change the color of the text to XYZ 21.8437, 32.2977, 31.4684 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(66, 171, 144)` looks like.

```
.text, #text, p{  
    color:rgb(66, 171, 144)  
}
```

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(66, 171, 144) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(66, 171, 144) }
```

Border

The CSS property to change the border of an element to XYZ 21.8437, 32.2977, 31.4684 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(66, 171, 144) }
```


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

```
.border{ border-color:rgb(66, 171, 144) }
```

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

Here you see how a box with a 4 pixel `rgb(66, 171, 144)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(66, 171, 144); -webkit-box-  
shadow:4px 4px 4px 4px rgb(66, 171, 144);  
box-shadow:4px 4px 4px 4px rgb(66, 171,  
144) }
```

Background

The CSS property to change the background color of an element to XYZ 21.8437, 32.2977, 31.4684 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(66, 171, 144) }
```

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

```
.background{ background-color: rgb(66, 171,  
144) }
```

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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