

Converting Colors

XYZ(22.0359, 35.9888, 31.0222)

Have a look what the booklet for
XYZ(22.0359, 35.9888, 31.0222)
contains.

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Color

**XYZ(21.9907, 35.9187,
30.9733)**

Conversions

Conversions Part 1

Format	Color
Hex	12B78D
RGB	18, 183, 141
RGB Percent	7%, 72%, 55%
CMY	0.9294, 0.2823, 0.4471
CMYK	0.90, 0.00, 0.23, 0.28
HSL	165°, 82%, 39%
HSV	165°, 90%, 72%
XYZ	21.9907, 35.9187, 30.9733
YIQ	128.8770, -84.8580, -48.0420

Conversions

Conversions Part 2

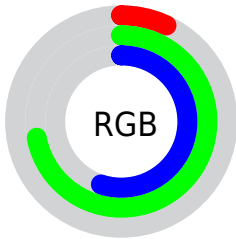
Format	Color
RYB	18, 113, 183
Decimal	1226637
CIELab	66.46, -48.47, 10.63
CIELCh	66, 49.622, 167.625
Yxy	35.9187, 0.2474, 0.4041
Android (android.graphics.Color)	4279416717 (0xFF12B78D)
YUV	128.8770, 5.9766, -97.2391
Hunter-Lab	59.9322, -39.3850, 11.3111

Details

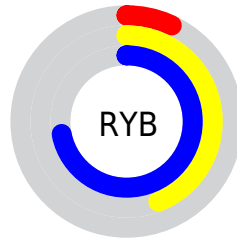
The XYZ color **21.9907, 35.9187, 30.9733** is a dark color, and the websafe version is hex **33CC99**. A complement of this color would be **20.5617, 10.8272, 5.2833**, and the grayscale version is **20.8262, 21.9108, 23.8608**.

A 20% lighter version of the original color is **46.2659, 68.9696, 62.5038**, and **9.7386, 16.4558, 12.5605** is the 20% darker color. If you saturate the color by 10%, you get **21.4077, 35.6576, 29.2020**, and if you desaturate by 10%, it is **22.8346, 36.3138, 32.8616**.

Distribution



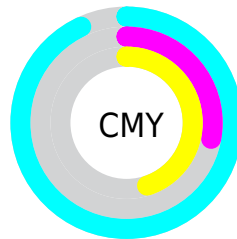
- Red (7%)
- Green (72%)
- Blue (55%)



- Red (7%)
- Yellow (44%)
- Blue (72%)



- Cyan (90%)
- Magenta (0%)
- Yellow (23%)
- Black (28%)




- Cyan (93%)
- Magenta (28%)
- Yellow (45%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 21.9907, 35.9187, 30.9733 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 21.9907, 35.9187, 30.9733 by changing the saturation by 10% instead.


 21.9907, 35.9187,
30.9733


 21.9907, 35.9187,
30.9733


255.1310,
328.6051, 320.7627


 13.9666, 24.3714,
20.3202


 46.2096, 68.9066,
62.2771


 8.1790, 15.6094,
12.4416


 63.1351, 91.1159,
83.7649

 4.2625, 9.2482,
6.9190


 83.7585, 117.6481,
109.7014

 1.8517, 4.9034,
3.3338

 108.4452,
148.8875, 140.5051

 0.5485, 2.1907,
1.2675

 137.5604,
185.2185, 176.5945

 0.0000, 0.7149,
0.0349

171.4695,

 0.0000, 0.0000,

227.0255, 218.3882

0.0000

210.5379,
274.6929, 266.3048

■ 21.9907, 35.9187,
30.9733

■ 21.9907, 35.9187,
30.9733

■ 21.4077, 35.6576,
29.2020

■ 22.8346, 36.3138,
32.8616

■ 24.0194, 36.8819,
34.8421

■ 25.5899, 37.6472,
36.9185

■ 27.5832, 38.6287,
39.0936

■ 30.0320, 39.8433,
41.3696

■ 32.9657, 41.3061,
43.7489

■ 36.4112, 43.0308,
46.2335

■ 40.3934, 45.0305,
48.8254

■ 44.9354, 47.3169,
51.5265

Harmonies

Analogous

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



24.6281, 35.9187, 17.4924



21.9907, 35.9187, 30.9733



22.2445, 35.9187, 52.8660

Triad

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



21.9907, 35.9187, 30.9733



38.6550, 35.9187, 92.5621



44.7123, 35.9187, 15.9863

Complementary

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



21.9907, 35.9187, 30.9733



20.5617, 10.8272, 5.2833

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.



49.6615, 35.9187, 27.9737



21.9907, 35.9187, 30.9733



45.8303, 35.9187, 73.7121

Square

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



21.9907, 35.9187, 30.9733



31.1660, 35.9187, 94.2973



50.0980, 35.9187, 48.5583



37.2966, 35.9187, 11.1963

Rectangle

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



21.9907, 35.9187, 30.9733



24.0205, 35.9187, 69.8163



50.0980, 35.9187, 48.5583



46.7635, 35.9187, 19.0573

Sweetspot

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



21.9917, 35.9201, 30.9741



60.6188, 74.7656, 79.5379



19.0307, 34.9365, 6.3133



12.9538, 16.2960, 17.2393



88.6918, 93.3107, 101.6153



17.8044, 18.7317, 20.3988

Same Dimension

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



21.9917, 35.9201, 30.9741



38.2414, 63.8208, 51.7823



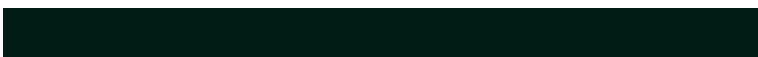
18.8473, 23.6478, 48.3725



9.1664, 10.1705, 11.0334



14.9626, 24.8860, 20.5230



0.5510, 0.8867, 0.8472

Inverse Universe

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



20.5617, 10.8272, 5.2833



35.8006, 18.3605, 5.9837



21.0776, 12.9896, 1.9692



9.0959, 9.0487, 9.8525



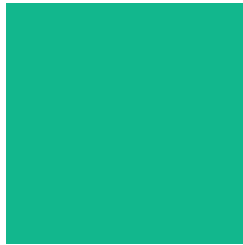
13.9996, 7.1736, 2.6187



0.5194, 0.2632, 0.2285

Previews

White Background



This preview shows how the XYZ color 21.9907, 35.9187, 30.9733 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 21.9907, 35.9187, 30.9733 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

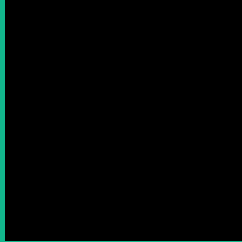
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 21.9907, 35.9187, 30.9733

Background



This preview shows how black text looks on a background with the XYZ color 21.9907, 35.9187, 30.9733.

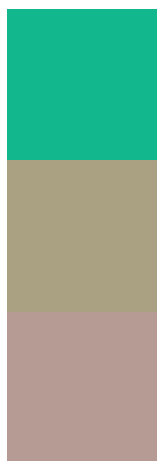


This preview shows how white text looks on a background with the XYZ color 21.9907, 35.9187,

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

21.9907, 35.9187, 30.9733

Protanopia

33.1776, 35.2994, 26.1839

Deuteranopia

36.0439, 35.3730, 32.5317



Tritanopia

26.7329, 35.7421, 54.7801

Trichromacy



Original Color

21.9907, 35.9187, 30.9733



Protanomaly

25.3759, 33.3713, 27.6581



Deuteranomaly

26.5920, 33.0922, 31.7739



Tritanomaly

24.7016, 35.7928, 45.1420

Monochromacy



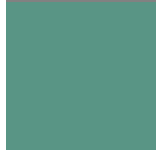
Original Color

21.9907, 35.9187, 30.9733



Achromatopsia

20.8660, 21.9526, 23.9064



Achromatomaly

19.1009, 25.3122, 26.0693

CSS Examples

Text

The CSS property to change the color of the text to XYZ 21.9907, 35.9187, 30.9733 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(18, 183, 141)` looks like.

```
.text, #text, p{  
    color:rgb(18, 183, 141)  
}
```

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(18, 183, 141) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(18, 183, 141) }
```

Border

The CSS property to change the border of an element to XYZ 21.9907, 35.9187, 30.9733 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(18, 183, 141) }
```


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

```
.border{ border-color:rgb(18, 183, 141) }
```

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

Here you see how a box with a 4 pixel `rgb(18, 183, 141)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(18, 183, 141); -webkit-box-  
shadow:4px 4px 4px 4px rgb(18, 183, 141);  
box-shadow:4px 4px 4px 4px rgb(18, 183,  
141) }
```

Background

The CSS property to change the background color of an element to XYZ 21.9907, 35.9187, 30.9733 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(18, 183, 141) }
```

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

```
.background{ background-color: rgb(18, 183,  
141) }
```

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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