

Converting Colors

XYZ(13.3281, 16.8670, 21.0961)

Have a look what the booklet for
XYZ(13.3281, 16.8670, 21.0961)
contains.

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Color

**XYZ(13.2200, 16.7407,
20.9469)**

Conversions

Conversions Part 1

Format	Color
Hex	497A7A
RGB	73, 122, 122
RGB Percent	29%, 48%, 48%
CMY	0.7137, 0.5216, 0.5216
CMYK	0.40, 0.00, 0.00, 0.52
HSL	180°, 25%, 38%
HSV	180°, 40%, 48%
XYZ	13.2200, 16.7407, 20.9469
YIQ	107.3490, -29.2040, -10.3880

Conversions

Conversions Part 2

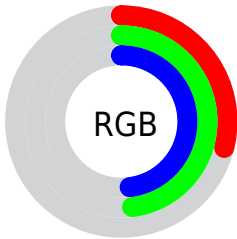
Format	Color
RYB	73, 98, 122
Decimal	4815482
CIELab	47.93, -16.51, -5.23
CIElCh	48, 17.315, 197.577
Yxy	16.7407, 0.2597, 0.3288
Android (android.graphics.Color)	4283005562 (0xFF497A7A)
YUV	107.3490, 7.2229, -30.1241
Hunter-Lab	40.9154, -13.9276, -1.7131

Details

The XYZ color **13.2200, 16.7407, 20.9469** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **11.6117, 9.3841, 7.5031**, and the grayscale version is **14.0588, 14.7909, 16.1073**.

A 20% lighter version of the original color is **31.2821, 38.0010, 45.7306**, and **3.8944, 5.4056, 7.1414** is the 20% darker color. If you saturate the color by 10%, you get **12.3850, 16.3106, 20.9081**, and if you desaturate by 10%, it is **14.2374, 17.2656, 20.9950**.

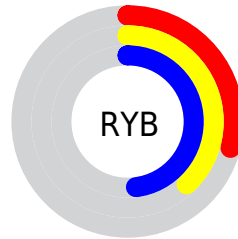
Distribution



 Red (29%)

 Green (48%)

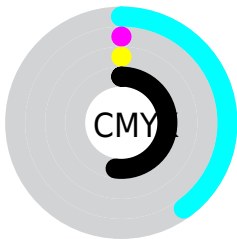
 Blue (48%)



 Red (29%)

 Yellow (38%)

 Blue (48%)

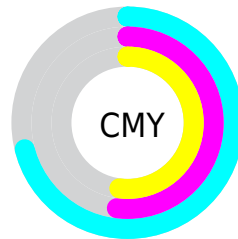


 Cyan (40%)


 Magenta (0%)

 Yellow (0%)

 Black (52%)



 Cyan (71%)

 Magenta (52%)

 Yellow (52%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.2200, 16.7407, 20.9469 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 13.2200, 16.7407, 20.9469 by changing the saturation by 10% instead.

■ 13.2200, 16.7407,
20.9469

■ 13.2200, 16.7407,
20.9469

205.9321,
233.6736, 269.7679

■ 7.6583, 10.0498,
12.8943

■ 31.2964, 37.8794,
45.8788

■ 3.9270, 5.4320,
7.2259

■ 44.5418, 53.0960,
63.5952

■ 1.6609, 2.5029,
3.5232

■ 61.0791, 71.9233,
85.3699

■ 0.4316, 0.8781,
1.3676

■ 81.2737, 94.7456,
111.6216

■ 0.0000, 0.0000,
0.1163

■ 105.4910,
121.9474, 142.7687

■ 0.0000, 0.0000,
0.0000

134.0962,

153.9131, 179.2297

167.4548,
191.0271, 221.4233

■ 13.2200, 16.7407,
20.9469

■ 13.2200, 16.7407,
20.9469

■ 12.3850, 16.3106,
20.9081

■ 14.2374, 17.2656,
20.9950

■ 11.7202, 15.9679,
20.8768

■ 15.4455, 17.8884,
21.0517

■ 11.2143, 15.7071,
20.8530

■ 16.8538, 18.6144,
21.1177

■ 10.8541, 15.5215,
20.8361

■ 18.4709, 19.4480,
21.1935

■ 10.6243, 15.4030,
20.8252

■ 20.3048, 20.3934,
21.2794

■ 10.4726, 15.3248,
20.8180

■ 22.3630, 21.4545,
21.3759

■ 24.6529, 22.6349,
21.4832

■ 27.1812, 23.9383,
21.6016

■ 29.9547, 25.3681,
21.7315

Harmonies

Analogous

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



13.1584, 16.7407, 16.4415



13.2200, 16.7407, 20.9469



13.9727, 16.7407, 25.3326

Triad

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



13.2200, 16.7407, 20.9469



18.2300, 16.7407, 24.6585



16.5656, 16.7407, 11.0599

Complementary

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



13.2200, 16.7407, 20.9469



11.6117, 9.3841, 7.5031

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.



18.0219, 16.7407, 12.5936



13.2200, 16.7407, 20.9469



19.0242, 16.7407, 20.1389

Square

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



13.2200, 16.7407, 20.9469



16.8346, 16.7407, 27.7044



18.9456, 16.7407, 15.7548



15.0228, 16.7407, 11.2038

Rectangle

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



13.2200, 16.7407, 20.9469



14.7946, 16.7407, 27.3774



18.9456, 16.7407, 15.7548



17.0833, 16.7407, 11.3844

Sweetspot

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



13.2205, 16.7414, 20.9473



29.0929, 32.4599, 37.1247



10.9725, 15.8494, 8.7844



6.5954, 7.3927, 8.4859



59.0181, 62.0916, 67.6177



7.4413, 7.8288, 8.5256

Same Dimension

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



13.2205, 16.7414, 20.9473



21.9220, 28.7632, 36.7883



10.6583, 11.6168, 20.0937



4.1071, 4.5124, 5.0977



11.0255, 16.1339, 21.9170



52.5928, 76.9601, 104.5462

Inverse Universe

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



11.6117, 9.3841, 7.5031



18.6847, 13.9583, 9.7349



13.4747, 13.1101, 8.1238



3.9983, 4.0150, 4.1888



8.4502, 4.3562, 0.3956



40.3081, 20.7796, 1.8866

Previews

White Background



This preview shows how the XYZ color 13.2200, 16.7407, 20.9469 looks on a white 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

Black Background



This preview shows how the XYZ color 13.2200, 16.7407, 20.9469 looks on a black 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

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

XYZ 13.2200, 16.7407, 20.9469

Background



This preview shows how black text looks on a background with the XYZ color 13.2200, 16.7407, 20.9469.



This preview shows how white text looks on a background with the XYZ color 13.2200, 16.7407,

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

13.2200, 16.7407, 20.9469

Protanopia

15.9969, 16.6486, 18.8934

Deuteranopia

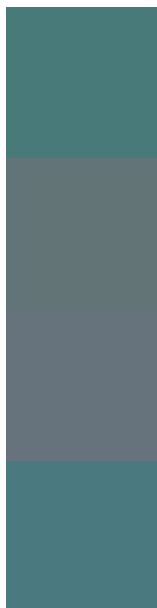
16.8854, 16.5545, 21.7074



Tritanopia

13.7683, 16.7823, 23.6327

Trichromacy



Original Color

13.2200, 16.7407, 20.9469

Protanomaly

14.6610, 16.4514, 19.5423

Deuteranomaly

15.1349, 16.3146, 21.4201

Tritanomaly

13.4922, 16.6629, 22.5838

Monochromacy



Original Color

13.2200, 16.7407, 20.9469

Achromatopsia

13.9749, 14.7027, 16.0113

Achromatomaly

13.4381, 15.1911, 17.5531

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.2200, 16.7407, 20.9469 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(73, 122, 122)` looks like.

```
.text, #text, p{  
    color:rgb(73, 122, 122)  
}
```

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(73, 122, 122) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 122, 122) }
```

Border

The CSS property to change the border of an element to XYZ 13.2200, 16.7407, 20.9469 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(73, 122, 122) }
```


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

```
.border{ border-color:rgb(73, 122, 122) }
```

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

Here you see how a box with a 4 pixel `rgb(73, 122, 122)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(73, 122, 122); -webkit-box-  
shadow:4px 4px 4px 4px rgb(73, 122, 122);  
box-shadow:4px 4px 4px 4px rgb(73, 122,  
122) }
```

Background

The CSS property to change the background color of an element to XYZ 13.2200, 16.7407, 20.9469 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(73, 122, 122) }
```

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

```
.background{ background-color: rgb(73, 122,  
122) }
```

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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