

Converting Colors

XYZ(12.1984, 13.9468, 23.8166)

Have a look what the booklet for
XYZ(12.1984, 13.9468, 23.8166)
contains.

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Color

**XYZ(12.2320, 13.9428,
23.8763)**

Conversions

Conversions Part 1

Format	Color
Hex	476D84
RGB	71, 109, 132
RGB Percent	28%, 43%, 52%
CMY	0.7216, 0.5725, 0.4824
CMYK	0.46, 0.17, 0.00, 0.48
HSL	203°, 30%, 40%
HSV	203°, 46%, 52%
XYZ	12.2320, 13.9428, 23.8763
YIQ	100.2600, -30.0310, -0.9030

Conversions

Conversions Part 2

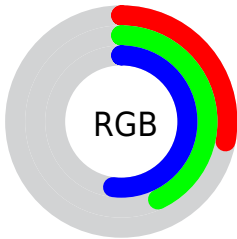
Format	Color
RYB	71, 94, 132
Decimal	4681092
CIELab	44.15, -6.83, -16.90
CIElCh	44, 18.226, 247.986
Yxy	13.9428, 0.2444, 0.2786
Android (android.graphics.Color)	4282871172 (0xFF476D84)
YUV	100.2600, 15.6478, -25.6610
Hunter-Lab	37.3401, -6.8714, -11.7737

Details

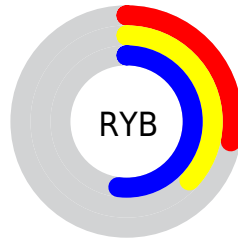
The XYZ color **12.2320, 13.9428, 23.8763** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **14.6560, 13.3661, 7.7691**, and the grayscale version is **12.1466, 12.7792, 13.9165**.

A 20% lighter version of the original color is **29.4961, 32.8553, 50.6860**, and **3.4951, 4.1830, 8.6058** is the 20% darker color. If you saturate the color by 10%, you get **10.8512, 12.4652, 23.6641**, and if you desaturate by 10%, it is **13.8541, 15.5900, 24.1090**.

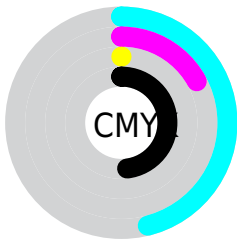
Distribution



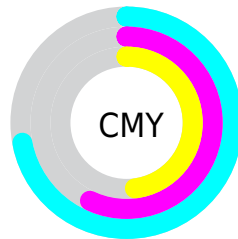
- Red (28%)
- Green (43%)
- Blue (52%)



- Red (28%)
- Yellow (37%)
- Blue (52%)



- Cyan (46%)
- Magenta (17%)
- Yellow (0%)
- Black (48%)



- Cyan (72%)
- Magenta (57%)
- Yellow (48%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2320, 13.9428, 23.8763 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 12.2320, 13.9428, 23.8763 by changing the saturation by 10% instead.

■ 12.2320, 13.9428,
23.8763

■ 12.2320, 13.9428,
23.8763

199.6739,
216.8747, 285.4609

■ 6.9752, 8.0809,
15.0305

■ 29.5301, 32.9875,
50.7696

■ 3.4928, 4.1468,
8.6940

■ 42.3022, 46.9391,
69.6541

■ 1.4194, 1.7560,
4.4480

■ 58.3101, 64.3560,
92.7221

■ 0.2700, 0.4595,
1.8742

■ 77.9191, 85.6227,
120.3919

■ 0.0000, 0.0000,
0.4762

■ 101.4946,
111.1235, 153.0821

■ 0.0000, 0.0000,
0.0000

129.4021,

141.2428, 191.2114

162.0067,
176.3651, 235.1981

■ 12.2320, 13.9428,
23.8763

■ 12.2320, 13.9428,
23.8763

■ 10.8512, 12.4652,
23.6641

■ 13.8541, 15.5900,
24.1090

■ 9.6961, 11.1477,
23.4707

■ 15.7292, 17.4126,
24.3620

■ 8.7512, 9.9816,
23.2954

■ 17.8698, 19.4182,
24.6363

■ 7.9984, 8.9570,
23.1373

■ 20.2869, 21.6131,
24.9325

■ 7.4069, 8.0571,
22.9948

■ 22.9913, 24.0034,
25.2514

7.1997, 7.7355,
22.9437

25.9928, 26.5950,
25.5934

29.3009, 29.3933,
25.9592

32.9246, 32.4037,
26.3492

36.8726, 35.6311,
26.7641

Harmonies

Analogous

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



11.1693, 13.9428, 20.6595



12.2320, 13.9428, 23.8763



13.6443, 13.9428, 24.5671

Triad

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



12.2320, 13.9428, 23.8763



16.2170, 13.9428, 14.0963



11.6055, 13.9428, 9.7064

Complementary

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



12.2320, 13.9428, 23.8763



14.6560, 13.3661, 7.7691

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.



12.8677, 13.9428, 8.5545



12.2320, 13.9428, 23.8763



15.5792, 13.9428, 10.7688

Square

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



12.2320, 13.9428, 23.8763



16.0157, 13.9428, 18.3835



14.3276, 13.9428, 8.9043



10.8264, 13.9428, 12.3745

Rectangle

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



12.2320, 13.9428, 23.8763



14.6074, 13.9428, 23.4029



14.3276, 13.9428, 8.9043



11.9836, 13.9428, 9.1535

Sweetspot

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



12.2325, 13.9433, 23.8766



32.2473, 34.9126, 43.4923



12.8422, 18.6392, 13.3626



7.3307, 7.9656, 10.1038



64.0503, 67.3860, 73.3833



8.9945, 9.4630, 10.3052

Same Dimension

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



12.2325, 13.9433, 23.8766



19.1103, 21.9530, 41.6833



9.5694, 8.6172, 22.9889



4.6580, 4.9916, 5.9187



6.9762, 7.5003, 22.2167



0.0312, 0.0401, 0.0793

Inverse Universe

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



14.5296, 10.5165, 15.7326



23.8104, 15.6936, 24.8515



17.8443, 19.7427, 8.8319



4.7854, 4.7338, 5.4822



10.6994, 5.3441, 8.2553



0.0406, 0.0199, 0.0473

Previews

White Background



This preview shows how the XYZ color 12.2320, 13.9428, 23.8763 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 12.2320, 13.9428, 23.8763 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

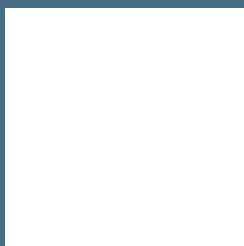
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.2320, 13.9428, 23.8763

Background



This preview shows how black text looks on a background with the XYZ color 12.2320, 13.9428, 23.8763.

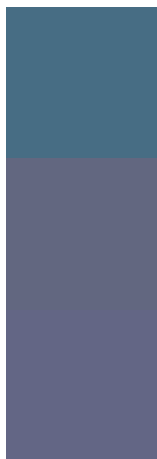


This preview shows how white text looks on a background with the XYZ color 12.2320, 13.9428,

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

12.2320, 13.9428, 23.8763

Protanopia

13.7835, 13.8557, 22.3700

Deuteranopia

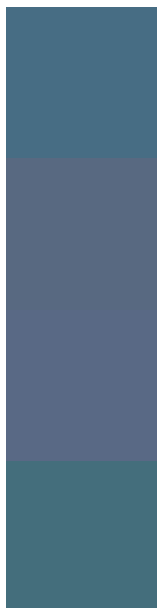
14.1306, 13.8488, 24.1186



Tritanopia

11.3893, 13.9182, 19.8555

Trichromacy



Original Color

12.2320, 13.9428, 23.8763

Protanomaly

13.0385, 13.7628, 22.7382

Deuteranomaly

13.4050, 13.9205, 24.1707

Tritanomaly

11.5979, 13.8360, 21.1281

Monochromacy



Original Color

12.2320, 13.9428, 23.8763

Achromatopsia

12.1130, 12.7438, 13.8780

Achromatomaly

11.8947, 12.9942, 17.2104

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2320, 13.9428, 23.8763 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(71, 109, 132)` looks like.

```
.text, #text, p{  
    color:rgb(71, 109, 132)  
}
```

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(71, 109, 132) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 109, 132) }
```

Border

The CSS property to change the border of an element to XYZ 12.2320, 13.9428, 23.8763 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(71, 109, 132) }
```


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

```
.border{ border-color:rgb(71, 109, 132) }
```

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

Here you see how a box with a 4 pixel `rgb(71, 109, 132)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 109, 132); -webkit-box-  
shadow:4px 4px 4px 4px rgb(71, 109, 132);  
box-shadow:4px 4px 4px 4px rgb(71, 109,  
132) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2320, 13.9428, 23.8763 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 109, 132) }
```

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

```
.background{ background-color: rgb(71, 109,  
132) }
```

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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