pastel background. It will be basically impossible to see.
If you wish to use a dark background, the text should be in white or very pale tone.

## Adaptation of colour and contrast

## Context





 Context
Creating accessible content is a lengthy process that involves thinking beyo
capabilities. When it comes to online learning especially, a key element that
unnoticed is the screen. Indeed, visual accessibility is key for learners, wheth
present visual impairments or not. For students with SLDs, working with co
contrast can prove really useful, as it provides support for structure and und
Colour and Contrast
Contrast
Contrast sensitivity is the ability to perceive the difference in brightness bet
foreground and background color.
The size, distance and illumination of the object will vary depending on the
Contrast sentivity is important for reading text and seeing visuals.
Make sure that graphical and textual elements have sufficient contrast with
background.
Be especially careful with patterned or picture background that can interfer
the legibility of text.
Colour
Colours convey information about the world. They are usually detected by the
but can be perceived differently depending on specific impairments.
Design principles
Background colour

## Contrast





 background.



## Colour


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but can be perceived differently depending on specific impairments.
Design principles
To

To get the best contrast possible, use dark text on light backgrounds. When tinting a background, try to use tints between 10 and $15 \%$. Text should never be used as a 10 to $15 \%$ tint of a solid colour over a white, cream or


15
 Pale

## Text colours

Using black text is usually the most accessible. You can also use dark colours such as red, green or blue, but keep in in mind that a dark burgundy red is easier to see than an flashy red. Never use yellow as a background, it is virtually impossible to see. Avoid using pale text on pale backgrounds.



## Complementary colours

When using colours, avoid using complementary colours together. These are hard to see for people with colour vision deficiency.
Some difficult combination to see are red/green and yellow/purple.

## Examples

Look at the example below. Which colour combination work best for your eyesight?

| design | design | design |  |
| :--- | :--- | :--- | :--- |
| design | design | design | design |
| design | design | design | design |

This is same image with low contrast. Do you see the difference?


## Resources

University of Cambridge, Inclusive Design Toolkit.
http://www.inclusivedesigntoolkit.com/UCvision/vision.htm
Royal National Institute of Blind People, 2015 'How to choose colour and contrast for printed materials that benefits people with sight problems'.
http://scdg.org.uk/wp-content/uploads/2019/02/Colour-information-with-header-sheet-
2.pdf

Contrast checker for your texts and visuals:
https://coolors.co/contrast-checker/112a46-acc8e5

