

Creating learning content

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Introduction

PDF (Portable Document Format) is a file format that was created by Adobe to provide a means of representing any document file type in a format that was independent of the software, hardware or operating system.

Adobe also created a free reader application called Adobe Acrobat Reader, now called Adobe Reader DC that is freely available for Windows, Macintosh and Android.

Other PDF readers are available offering different sets of features.

In addition to providing a format that is viewable across almost all devices PDF also provides:

- a non-editable document format that maintains the integrity of the original;
- a printable document, a feature regularly requested by learners;
- access to accessibility features such as reflow, colour, contrast, and read-aloud, making your documents more inclusive;
- a navigable document structure.

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Why?

A major benefit of accessible PDFs is that they make your materials available to a wider audience including those with disabilities without compromising the look of the original document.

Accessible PDFs enable the user to:

- use tags and tabbing to select correct reading order;
- navigate the page using bookmarks or a contents menu;
- use screen readers to read the page text out loud – for the visually impaired;
- provide descriptive text (ALT-Text) to ensure that readers understand the message behind images, tables and graphs;
- reflow text – making a page with two or more columns into one column for easier reading on smaller screens e.g. mobile;
- change colour contrast and font size.

How?

The first step to creating an accessible PDF is to create an accessible document.

Microsoft Word provides an already familiar interface for the creation of documents and versions from Word 2010 also have a built-in accessibility checker option that will assist you in rectifying any identified issues:

File> Info > Check for Issues > Check Accessibility

(Unfortunately, in 2016, this option is not available for Microsoft Word or the Macintosh IOS operating system.)

Microsoft Word has an export function that allows you to easily export your word document to PDF, retaining many of the accessibility features in the process.

Microsoft Word also comes with an excellent step-by-step 'how to' guide on ['Creating accessible Word documents'](#).

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To convert your accessible Word documents to PDF visit the site of the UK Government Service Design Manual and follow the guidelines on [‘Creating accessible PDFs’](#).

When?

It is good practice to create all your documents with accessibility in mind as this will ensure that you meet any accessibility obligations either legal or organisational.

Even if you do not require your materials to be accessible currently, creating them in this way will ensure that you meet any future accessibility requirements. In addition, anyone who decides to reuse your materials can do so in the knowledge that they are suitable.

Templates and guides

There are a number of additional templates and guides to support the creation of accessible Microsoft Word and PDF documents for learning. Some of these are described in the sections below including a number of tailored Microsoft Word templates which have been created by the EDU team for specific projects.

Creating accessible Microsoft Word documents

This [Guide to creating accessible Microsoft Word documents](#), written by Donald Maclean at Perth College UHI, covers creating an accessible Microsoft Word document. It includes step by step instructions on running the accessibility check function within Microsoft Word.

Donald has also written a useful [Guide to creating accessible PDFs](#) based on an initial document created using Microsoft Word.

Embedding PDFs in blackboard learning resources

Within Blackboard sites, Learning Modules let you organize and present students with a collection of related material and activities (similar to Folders but more interactive and neatly structured with a clickable Table of Contents on the left of the screen).

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PDFs can be added to Learning Modules but there is more than one way to have them displayed. If they are added as Attachments they will be displayed as links, which students must click to open; however, there is a way to avoid this extra click and have the PDF open automatically within the Learning Module.

Watch this [video](#) and download this [guide](#) which will take you through the process of setting up a PDF to open automatically for students in a Learning Module.

Examples

Work-based learning hub

In this example, a bespoke Microsoft Word template was designed to support the subject leads and teaching staff involved in the delivery of the Work-based learning foundation apprenticeship programmes across the university.

The template specification, including the branding, use of icons and heading styles, was determined through discussion at an initial workshop of subject leads. The guide builds on other available resources and focuses on using the built-in activity icons created by the EDU.

Download an example [template](#) and the [guide](#) for this project.

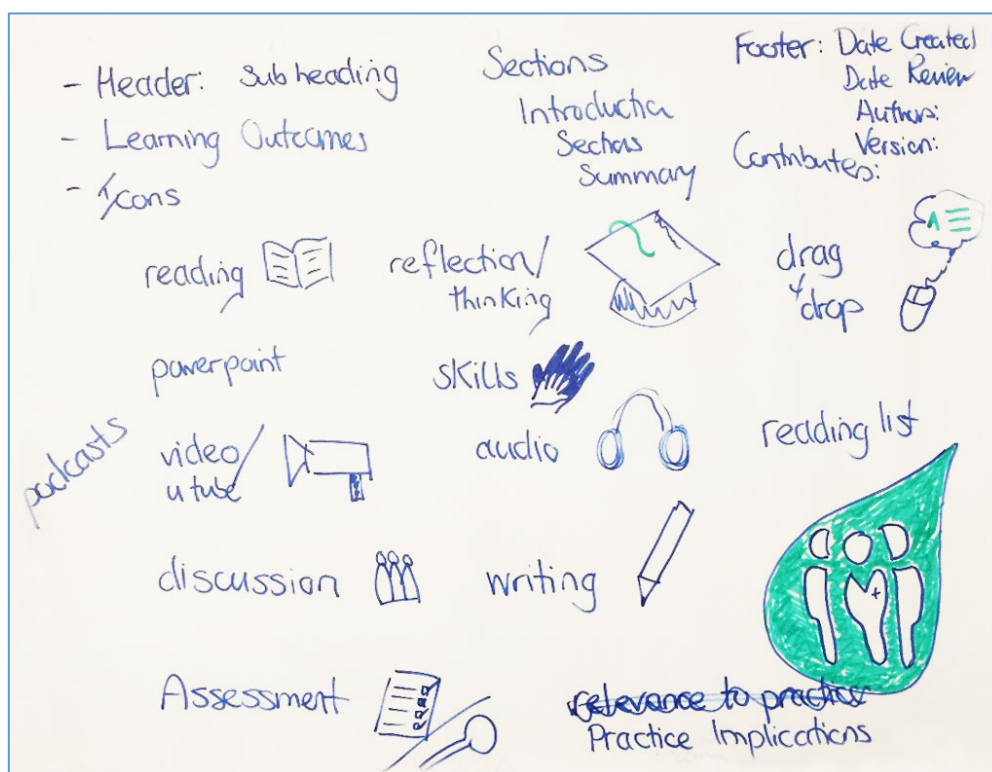
Nursing degree programme

The Microsoft Word template designed for the nursing degree programme was developed through two highly productive scoping workshops. These workshops ensured that the final template encapsulated the requirements of the team including automatic logos, ALT text, standard iconography (with ALT text) and standardised headers and footer information.

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Suggestions captured during workshop

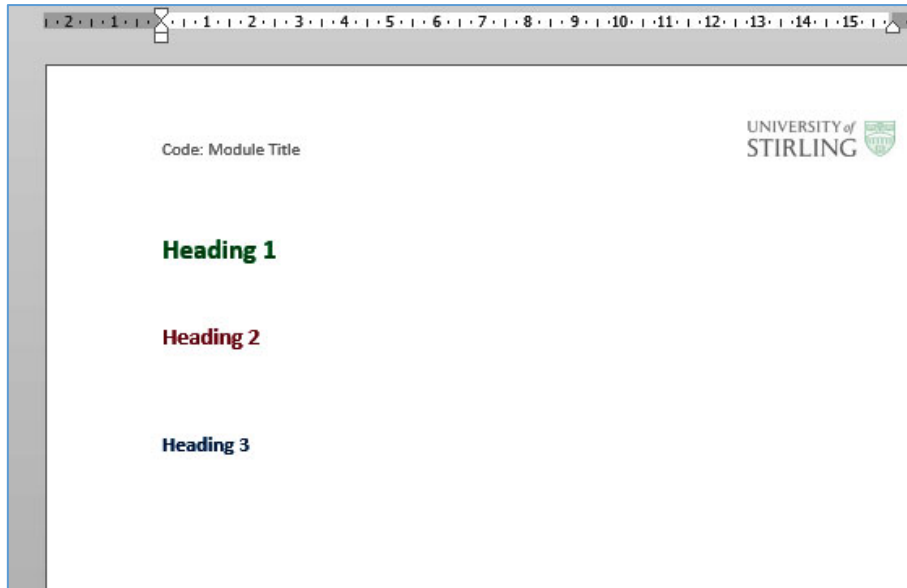


Ideas for icons suggested during workshop

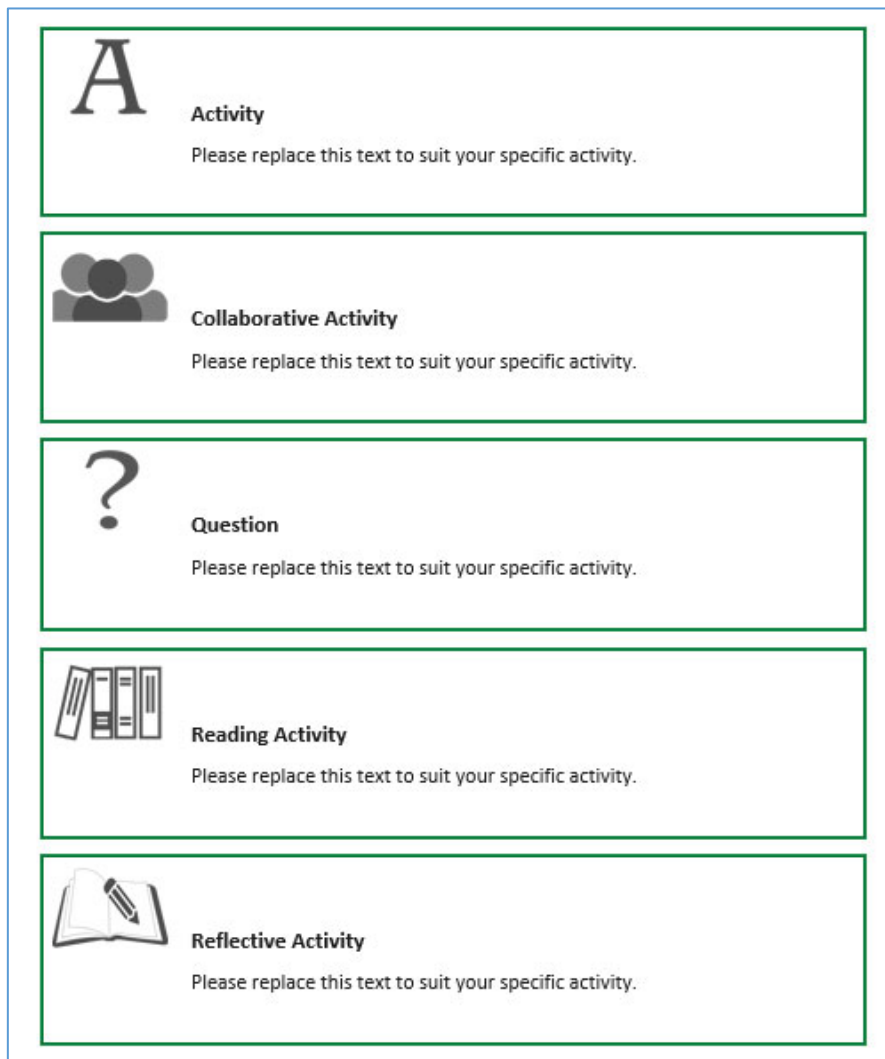
The final design supported effective navigation of learning content across the modules within the programme.

The aim of the team was to enhance the student experience by providing easily accessible and navigable learning content within the virtual learning environment.

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Final version of bespoke template for nursing degree programme



Bespoke icons used within the template