

Pagination UI Control Document

Interaction Designer: Jindrich Dinga

Please note that all pictures that are shown in this document are for illustration purposes only.

1 Overview

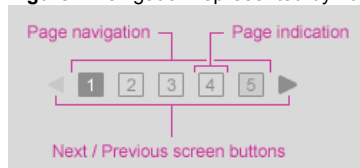
Pagination is a control that is used for navigation between pages of a single content, which has been divided into smaller parts.

On Desktop, this type of control is usually used in web applications (e.g. for displaying search results or showing mails in a mailbox) to avoid long lists that server and browser would not be able to handle. On other platforms, e.g. touch, page navigation can be used for browsing through single pages of an article or navigation between screens.

2 Interaction Design

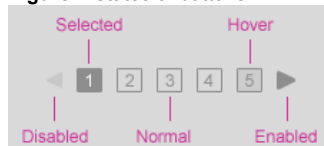
Pagination control consists from buttons that represent the content that has been divided into separate pages. Users can switch between pages by tapping number buttons or by tapping Previous and Next buttons. On the first page, Previous button must always be disabled. Once users are on a page other than the first one, Previous button becomes enabled. Similarly to Previous button, Next button must be disabled when users reach the last page.

Figure 1 Navigation represented by numbers



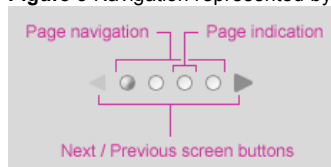
The following picture shows states of buttons used in Pagination control.

Figure 2 States of buttons



Since this type of navigation can be used in so many ways, e.g. on touch platform for navigating between screens, application developers must be allowed to use other page indication (e.g. dots, rectangles, or other shape) instead of numbers.

Figure 3 Navigation represented by dots



On touch platforms, users switch between pages by swiping their finger across the screen in the desired direction or by tapping dots or rectangles. For novice users, it might be hard to understand this concept so it is recommended to display arrows next to the page indication.

Note that Touch devices can rotate. Because of this, sizes of Pagination should adjust automatically based on the available mode (Landscape or Portrait).

When using Pagination control, application developers must be able to specify what part of content should fit in one page. Also, application developers must be able to specify how many page buttons should appear in Page navigation. The default number is 10, however, the developer should be allowed to override this number. If there are fewer pages available, page navigation must show page buttons just for available pages.

3 Navigation

3.1 Mouse Support

The following table describes actions that are performed when users click on:

All platforms	Action
Left arrow	Go to previous page if allowed. Pressing Left arrow key when the first page in a set is selected brings up previous set, if applicable, in which the last page is selected.
Right arrow	Go to next page if allowed. Pressing Right arrow key when the last page in a set is selected brings up next set, if applicable, in which the first page is selected.
A Dot or Page number	Go to selected page.

3.2 Touch Support

The following table describes actions that are performed when users tap on:

	Action
Left arrow	Go to previous page if allowed. Pressing Left arrow key when the first page in a set is selected brings up previous set, if applicable, in which the last page is selected.
Right arrow	Go to next page if allowed. Pressing Right arrow key when the last page in a set is selected brings up next set, if applicable, in which the first page is selected.
A Dot or Page number	Go to selected page.

In case users swipe their finger across the screen:

	Action
From left to right	Go to previous page if allowed. Swiping from left to right when the first page in a set is selected brings up previous set, if applicable, in which the last page is selected.
From right to left	Go to next page if allowed. Swiping from right to left when the last page in a set is selected brings up next set, if applicable, in which the first page is selected.

3.3 Keyboard Support

The following table describes what happens when users press the following keys when the page navigation is focused:

	Action
LEFT arrow	Go to previous page if allowed. Pressing LEFT arrow key when the first page in a set is selected brings up previous set, if applicable, in which the last page is selected.
RIGHT arrow	Go to next page if allowed. Pressing RIGHT arrow key when the last page in a set is selected brings up next set, if applicable, in which the first page is selected.