PDFBox - PDF Bookmarks

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1. Accessing Bookmarks

See package:org.pdfbox.pdmodel.interactive.documentnavigation.outline
(../javadoc/org/pdfbox/pdmodel/interactive/documentnavigation/outline/package-summary.html)
See example:PrintBookmarks
(../javadoc/org/pdfbox/examples/pdmodel/PrintBookmarks.html)

A PDF can contain an outline of a document and jump to pages within a PDF document. An outline is a hierarchical tree structure of nodes that point to pages.

To access the root of the outline you go through the PDDocumentOutline
(../javadoc/org/pdfbox/pdmodel/PDDocumentCatalog.html)

```
      PDDocument doc = PDDocument.load( ... );
      PDDocumentOutline root =
doc.getDocumentCatalog().getDocumentOutline();
```

Now you can traverse the tree using the getFirstChild() and getNextSibling() functions.

```
      PDOutlineItem item = root.getFirstChild();
      while( item != null )
      {
          System.out.println( "Item:" + item.getTitle() );
          PDOutlineItem child = item.getFirstChild();
          while( child != null )
          {
              System.out.println( "    Child:" + child.getTitle() );
              child = child.getNextSibling();
          }
          item = item.getNextSibling();
      }
```

2. Creating Bookmarks

See example:CreateBookmarks
(../javadoc/org/pdfbox/examples/pdmodel/CreateBookmarks.html)

Creating bookmarks is just as easy. You first need to create the PDDocumentOutline and then add some PDOutlineItem objects to it.

```
      //first create the document outline and add it to the page
      PDDocumentOutline outline = new PDDocumentOutline();
      doc.getDocumentCatalog().setDocumentOutline( outline );

      //Create a root element to show in the tree
```

```
PDOutlineItem root = new PDOutlineItem();
root.setTitle( "Root of Document" );
outline.appendChild( root)

//Get the page to refer to
PDPage firstPage = (PDPage)doc.getAllPages().get( 0 );

//Create the outline item to refer to the first page.
PDOutlineItem firstPageItem = new PDOutlineItem();
firstPageItem.setTitle( "First Page of document" );
firstPageItem.setDestination( firstPage );
root.appendChild( firstPageItem );
```

Note:

By default all nodes in the outline tree are closed. You need to call openNode() if you want the node to be open when the document is opened.