

# PDFBox - PDF Bookmarks

## Table of contents

1 Accessing Bookmarks.....	2
2 Creating Bookmarks.....	2

## 1 Accessing Bookmarks

See package:[org.pdfbox.pdmodel.interactive.documentnavigation.outline](http://org.pdfbox.pdmodel.interactive.documentnavigation.outline)

See example:[PrintBookmarks](#)

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](#)

```
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](#)

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
PDPPage firstPage = (PDPPage)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.