

Document Preview with Google Docs viewer

What is it?:

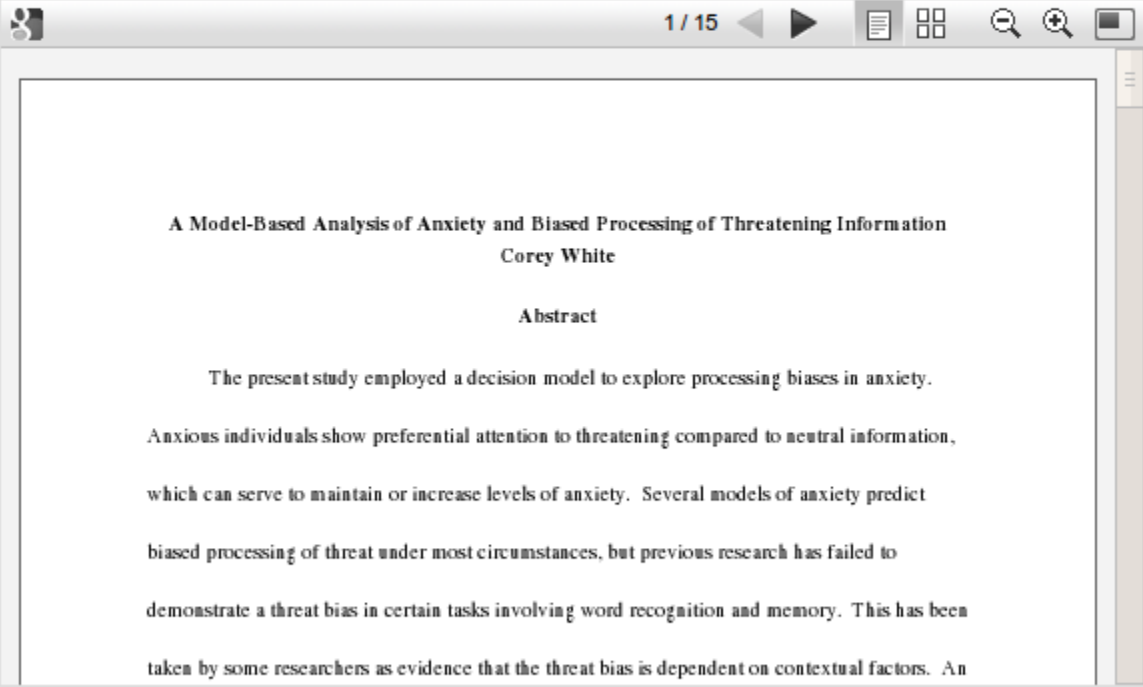
Document Preview is embedding a document display mechanism into the item display page. It makes the distance between the item in your repository, and the end user smaller as PDF's no longer require the user to have a PDF Viewer installed on their computer. And its faster, as the document begins loading in the page.

Before installing, be sure to check out Google's Terms of Service, and check that your usage is consistent with your institution's licensing policies, and is consistent with Google's usage policies. <https://docs.google.com/viewer/TOS?hl=en>. Additionally, there are limitations to how far this method can be customized, in which case another solution, such as @mire's document streaming would make more sense.

Document Preview in JSPUI

Files in This Item:

File	Description	Size	Format	
hayes_coreywhite.pdf		541.93 kB	Adobe PDF	View/Open or Preview



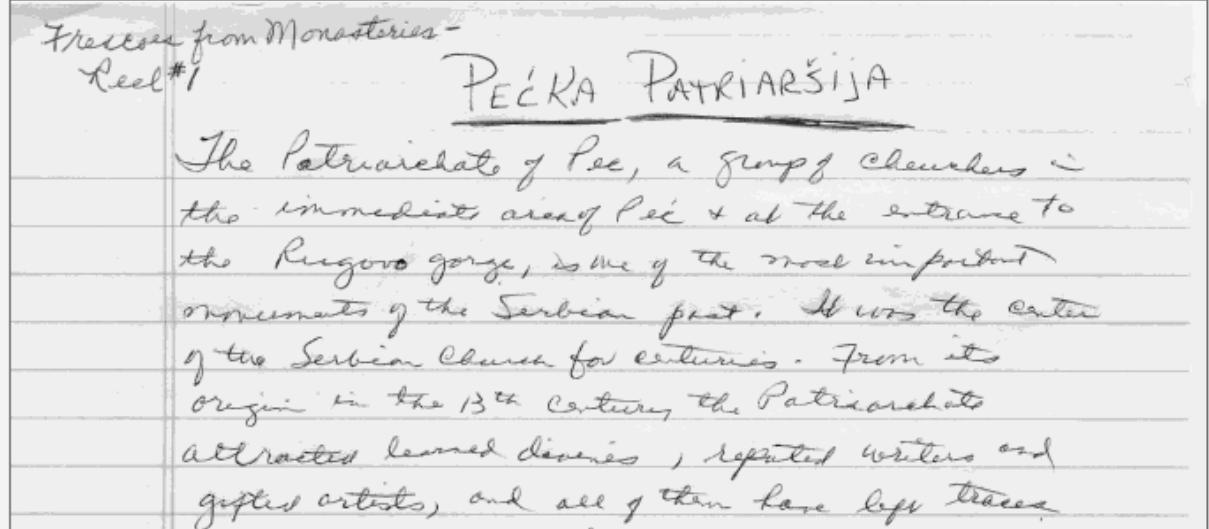
The image shows a Google Docs viewer interface. At the top, there is a toolbar with icons for document, table of contents, search, and zoom. Below the toolbar, the document content is displayed. The title is "A Model-Based Analysis of Anxiety and Biased Processing of Threatening Information" by Corey White. The section is labeled "Abstract". The text of the abstract is: "The present study employed a decision model to explore processing biases in anxiety. Anxious individuals show preferential attention to threatening compared to neutral information, which can serve to maintain or increase levels of anxiety. Several models of anxiety predict biased processing of threat under most circumstances, but previous research has failed to demonstrate a threat bias in certain tasks involving word recognition and memory. This has been taken by some researchers as evidence that the threat bias is dependent on contextual factors. An

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Files in this item

Files	Size	Format	View
HIL ENICH FMS 1.pdf	2.672Mb	PDF	View/Open or Preview



Treasures from Monasteries -
Reel #1

PEĆKA PATRIARŠIJA

The Patriarchate of Peć, a group of churches in the immediate area of Peć + at the entrance to the Rugova gorge, is one of the most important monuments of the Serbian past. It was the center of the Serbian Church for centuries. From its origin in the 13th century, the Patriarchate attracted learned dissidents, reputed writers and gifted artists, and all of them have left traces.

This item appears in the following Collection(s)

Document Preview with Google Docs viewer can be installed on either XMLUI or JSPUI, as it is just embedding a web service on your site.

JSPUI Instructions

Files:

- `dspace-jspui/dspace-jspui-api/src/main/java/org/dspace/app/webui/jsptag/ItemTag.java` (Item Display Page)
- `dspace/modules/jspui/src/main/webapp/utlis.js` (Custom Javascript)

Instructions:

1. Patch `ItemTag.java` to add the preview button and the hidden row that contains the iframe.

```

--- dspace-jspui/dspace-jspui-api/src/main/java/org/dspace/app/webui/jsptag/ItemTag.java
+++ dspace-jspui/dspace-jspui-api/src/main/java/org/dspace/app/webui/jsptag/ItemTag.java
@@ -927,10 +980,24 @@
        .getLocalizedMessage(
            pageContext,
            "org.dspace.app.webui.jsptag.ItemTag.view")
-
+        + "</a></td></tr>");
+
+        + "</a>");
+
+        String bsUrl = "/bitstream/"
+            + item.getHandle()
+            + "/" + bitstreams[k].getSequenceID()
+            + "/" + UIUtil.encodeBitstreamName(bitstreams
[k].getName(), Constants.DEFAULT_ENCODING);
+
+        out.print(" or <a href=\"#preview\" onclick=\"
setPreviewSource('" + bsUrl + "')\">Preview</a>");
+
+        out.print("</td></tr>");
+
+    }
+
+    }
+
+    // END, can put the doc viewer here.
+    out.println("<tr><td colspan=5>");
+    out.println("<a name='preview'");
+    out.println("<div id=\"preview\" style=\"display:none;\"> " +
+        "<iframe id=\"embed\" src=\"\" width=\"100%
\" height=\"342px\" style=\"border: none;\"></iframe>" +
+        "</div>");
+
+    out.println("</td></tr>");
+
+    }
+
+    out.println("</table>");

```

2. Copy utils.js from dspace-jspui/dspace-jspui-webapp/src/main/webapp/utils.js to dspace/modules/jspui/src/main/webapp/utils.js
3. Patch utils.js to add some additional needed functions.

```

--- dspace/modules/jspui/src/main/webapp/utils.js
+++ dspace/modules/jspui/src/main/webapp/utils.js
@@ -301,3 +307,36 @@

+function showHideToggle(divID) {
+    if (document.getElementById && !document.all) {
+        previewBox = document.getElementById(divID);
+        var state = previewBox.style.display;
+        if (state == 'block') {state = 'none';} else {state = 'block';}
+        previewBox.style.display = state;
+    }
+}
+
+function urlencode(str) {
+    return escape(str).replace(/\+/g, '%2B').replace(/%20/g, '+').replace(/\*/g, '%2A').replace(/\//g, '%2F').replace(/@/g, '%40');
+}
+
+String.prototype.endsWith = function(str)
+{
+    return (this.match(str+"$")==str)
+}
+
+function setPreviewSource(source) {
+    if(false) {
+        // if you need to change bitstream link to use a web viewable server (used in development)
+        source = "https://kb.osu.edu/dspace" + source;
+    }
+
+    if(source.endsWith(".pdf") || source.endsWith(".doc")) {
+        source = urlencode(source);
+        source = "http://docs.google.com/viewer?url="+source+"&embedded=true";
+    }
+
+    $("#embed").attr("src", source); //requires jQuery
+    showHideToggle('preview');
+    // and toggle
+}

```

1. The javascript functions do make minor use of jQuery, which can easily be added:

```

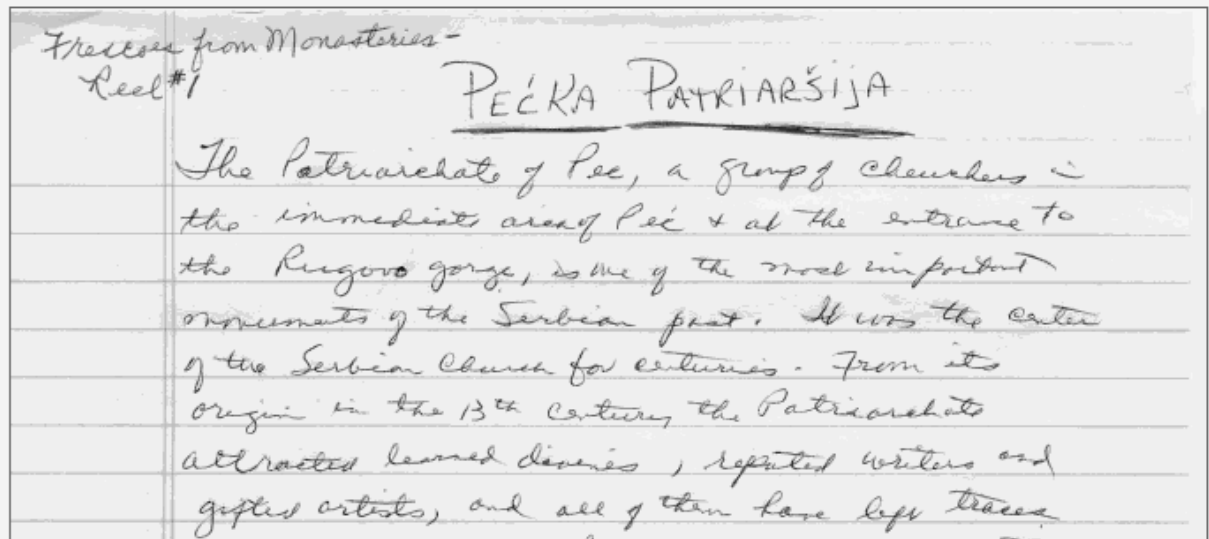
<script type="text/javascript" src="http://www.google.com/jsapi"></script>
<script type="text/javascript">
    google.load("jquery", "1.4");
    google.setOnLoadCallback(function() {
        // Place init code here instead of $(document).ready()
    });
</script>

```

XMLUI Instructions

Files in this item

Files	Size	Format	View
HIL ENICH FMS 1.pdf	2.672Mb	PDF	View/Open or Preview



Handwritten document titled "PEĆKA PATRIARŠIJA". The text describes the Patriarchate of Peć, a group of churches in the immediate area of Peć and at the entrance to the Rugova gorge, as one of the most important monuments of the Serbian past. It was the center of the Serbian Church for centuries. From its origin in the 13th century, the Patriarchate attracted learned clerics, reputed writers and gifted artists, and all of them have left traces.

This item appears in the following Collection(s)

Best practices are to put customizations into a theme directory, and not to modify the dri2xhtml files.

Additional Javascript function, note that you will need to use jQuery.

Add to [dspace/webapps/themes/your-theme/lib/yourtheme.js](#)

```
/**
 * Creates an iframe with the specified source
 * @REQUIRES jQuery
 * @REQUIRES that there exists an element with ID preview-embed
 */
function embeddedPreview(source) {
    if($("#embed").length > 0) {
        //set the source to the location asked for
        $("#embed").attr("src", source);
    } else {
        //Create the embed iframe
        $("#preview-embed").append("<iframe id='embed' src='"+source+"' width='100%' height='342px'
style='border:none;'/>"); //requires jQuery
    }
}
```

XSL overrides. This adds the "or Preview" link to the item downloads section, as well as an empty div hiding in the table.

Add to [dspace/webapps/themes/yourtheme/yourtheme.xls](#)

```
<!-- Document Preview with Google Docs viewer -->
<!-- Generate the bitstream information from the file section -->
<xsl:template match="mets:fileGrp[@USE='CONTENT']">
    <xsl:param name="context"/>
    <xsl:param name="primaryBitstream" select="-1"/>

    <h2><i18n:text>xmloi.dri2xhtml.METS-1.0.item-files-head</i18n:text></h2>
    <table class="ds-table file-list">
        <tr class="ds-table-header-row">
            <th><i18n:text>xmloi.dri2xhtml.METS-1.0.item-files-file</i18n:text></th>
            <th><i18n:text>xmloi.dri2xhtml.METS-1.0.item-files-size</i18n:text></th>
```

```

<th><i18n:text>xmlui.dri2xhtml.METS-1.0.item-files-format</i18n:text></th>
<th><i18n:text>xmlui.dri2xhtml.METS-1.0.item-files-view</i18n:text></th>
<!-- Display header for 'Description' only if at least one bitstream contains a description -->
<xsl:if test="mets:file/mets:FLocat/@xlink:label != ''">
  <th><i18n:text>xmlui.dri2xhtml.METS-1.0.item-files-description</i18n:text></th>
</xsl:if>
</tr>
<xsl:choose>
  <!-- If one exists and it's of text/html MIME type, only display the primary bitstream -->
  <xsl:when test="mets:file[@ID=$primaryBitstream]/@MIMETYPE='text/html'">
    <xsl:apply-templates select="mets:file[@ID=$primaryBitstream]">
      <xsl:with-param name="context" select="$context"/>
    </xsl:apply-templates>
  </xsl:when>
  <!-- Otherwise, iterate over and display all of them -->
  <xsl:otherwise>
    <xsl:apply-templates select="mets:file">
      <xsl:sort data-type="number" select="boolean(./@ID=$primaryBitstream)" order="
descending" />
      <xsl:sort select="mets:FLocat[@LOCTYPE='URL']/@xlink:title"/>
      <xsl:with-param name="context" select="$context"/>
    </xsl:apply-templates>
  </xsl:otherwise>
</xsl:choose>
<!-- Add the document previewer window -->
<tr>
  <td colspan='5'>
    <a name="preview"></a>
    <div id="preview-embed"/>
  </td>
</tr>
</table>
</xsl:template>

<!-- Build a single row in the bitstreams table of the item view page -->
<xsl:template match="mets:file">
  <xsl:param name="context" select="."/>
  <tr>
    <xsl:attribute name="class">
      <xsl:text>ds-table-row </xsl:text>
      <xsl:if test="(position() mod 2 = 0)">even </xsl:if>
      <xsl:if test="(position() mod 2 = 1)">odd </xsl:if>
    </xsl:attribute>
    <td>
      <a>
        <xsl:attribute name="href">
          <xsl:value-of select="mets:FLocat[@LOCTYPE='URL']/@xlink:href"/>
        </xsl:attribute>
        <xsl:attribute name="title">
          <xsl:value-of select="mets:FLocat[@LOCTYPE='URL']/@xlink:title"/>
        </xsl:attribute>
        <xsl:choose>
          <xsl:when test="string-length(mets:FLocat[@LOCTYPE='URL']/@xlink:title) > 50">
            <xsl:variable name="title_length" select="string-length(mets:FLocat[@LOCTYPE='URL']
/@xlink:title)"/>
            <xsl:value-of select="substring(mets:FLocat[@LOCTYPE='URL']/@xlink:title,1,15)"/>
            <xsl:text> ... </xsl:text>
            <xsl:value-of select="substring(mets:FLocat[@LOCTYPE='URL']/@xlink:
title,$title_length - 25,$title_length)"/>
          </xsl:when>
          <xsl:otherwise>
            <xsl:value-of select="mets:FLocat[@LOCTYPE='URL']/@xlink:title"/>
          </xsl:otherwise>
        </xsl:choose>
      </a>
    </td>
    <!-- File size always comes in bytes and thus needs conversion -->
    <td>
      <xsl:choose>
        <xsl:when test="@SIZE &lt; 1000">

```

```

        <xsl:value-of select="@SIZE"/>
        <i18n:text>xmlui.dri2xhtml.METS-1.0.size-bytes</i18n:text>
    </xsl:when>
    <xsl:when test="@SIZE < 1000000">
        <xsl:value-of select="substring(string(@SIZE div 1000),1,5)"/>
        <i18n:text>xmlui.dri2xhtml.METS-1.0.size-kilobytes</i18n:text>
    </xsl:when>
    <xsl:when test="@SIZE < 1000000000">
        <xsl:value-of select="substring(string(@SIZE div 1000000),1,5)"/>
        <i18n:text>xmlui.dri2xhtml.METS-1.0.size-megabytes</i18n:text>
    </xsl:when>
    <xsl:otherwise>
        <xsl:value-of select="substring(string(@SIZE div 1000000000),1,5)"/>
        <i18n:text>xmlui.dri2xhtml.METS-1.0.size-gigabytes</i18n:text>
    </xsl:otherwise>
</xsl:choose>
</td>
<!-- Lookup File Type description in local messages.xml based on MIME Type.
In the original DSpace, this would get resolved to an application via
the Bitstream Registry, but we are constrained by the capabilities of METS
and can't really pass that info through. -->
<td>
    <xsl:call-template name="getFileTypeDesc">
        <xsl:with-param name="mimetype">
            <xsl:value-of select="substring-before(@MIMETYPE, '/')"/>
            <xsl:text>/</xsl:text>
            <xsl:value-of select="substring-after(@MIMETYPE, '/')"/>
        </xsl:with-param>
    </xsl:call-template>
</td>
<td>
    <xsl:choose>
        <xsl:when test="$context/mets:fileSec/mets:fileGrp[@USE='THUMBNAIL']/
mets:file[@GROUPID=current()/@GROUPID]">
            <a class="image-link">
                <xsl:attribute name="href">
                    <xsl:value-of select="mets:FLocat[@LOCTYPE='URL']/@xlink:href"/>
                </xsl:attribute>
                <img alt="Thumbnail">
                    <xsl:attribute name="src">
                        <xsl:value-of select="$context/mets:fileSec/mets:fileGrp[@USE='THUMBNAIL']/
mets:file[@GROUPID=current()/@GROUPID]/mets:FLocat[@LOCTYPE='URL']
/@xlink:href"/>
                    </xsl:attribute>
                </img>
            </a>
        </xsl:when>
        <xsl:otherwise>
            <a>
                <xsl:attribute name="href">
                    <xsl:value-of select="mets:FLocat[@LOCTYPE='URL']/@xlink:href"/>
                </xsl:attribute>
                <i18n:text>xmlui.dri2xhtml.METS-1.0.item-files-viewOpen</i18n:text>
            </a>
        </xsl:choose>
        <xsl:when test="@MIMETYPE='application/pdf'">
            <xsl:text> or </xsl:text>
            <a>
                <xsl:attribute name="href">
                    <xsl:text>#preview</xsl:text>
                </xsl:attribute>
                <xsl:attribute name="onclick">
                    <xsl:text>embeddedPreview("</xsl:text>
                    <xsl:text>http://docs.google.com/viewer?url=</xsl:text>
<!--Google can't reach a local development machines, so you may want to code in your production server, where
Google downloads the file from-->
                    <xsl:text>http://example.edu/</xsl:text>-->
<!-- Getting bitstreams by ID -- XMLUI: /xmlui/bitstream/id JSPUI: /jspui/retrieve -->
                    <xsl:text>/xmlui/bitstream/id/</xsl:text>
                    <xsl:value-of select="substring(@ID,6)"/>
                    <xsl:text>&amp;embedded=true</xsl:text>

```

```

                <xsl:text>");</xsl:text>
            </xsl:attribute>
            Preview
        </a>
    </xsl:when>
</xsl:choose>
</xsl:otherwise>
</xsl:choose>
</td>
<!-- Display the contents of 'Description' as long as at least one bitstream contains a description
-->
    <xsl:if test="$context/mets:fileSec/mets:fileGrp/mets:file/mets:FLocat/@xlink:label != ''">
        <td>
            <xsl:value-of select="mets:FLocat[@LOCTYPE='URL']/@xlink:label"/>
        </td>
    </xsl:if>
</tr>
</xsl:template>

```

Essentially this works by "Preview" making a JavaScript call to create an iframe with a specified source (of your pdf bitstream).

NOTE: I originally posted this concept at [Document Preview in DSpace, using Google Docs Viewer](#)