



## Easynow

For the ease of learning, the preparation of multiple media materials will be discussed under the following heads:

1. Textual materials
2. Audio materials
3. Slide shows
4. Video (Chalk and Talk)
5. Enriched Video
6. ODL Format

This Unit of EasyNow deals with the conversion of content into 'Open and Distance Learning Format'. The ODL format integrates textual, audio-visual and activities into the same frame to enable the distance learner to get a more enriching experience. It is also useful to incorporate magnification and text to speech capability for the differently abled learners.

The EasyNow techniques described in the previous sections of the manual can be used to convert a simple lesson into various interesting formats. These lessons can be delivered through text, video tapes, CDs/DVDs, flash memories, photoframes or through the internet. The files have to be saved in the proper formats for the different delivery modes although the steps involved in the preparation remain same. For example, video delivery of the lecture through video tapes/CD/DVD require high quality video and so the size does not matter. However, for delivery through the internet, the file size should be small so the file is saved as a lower quality video. Insertion of these files in some html codes compiled by CEMCA converts these lessons into ODL formats and at the same time make them user friendly for the visually impaired.

### HTML Code for magnification

The internet delivery of text can be enhanced by providing the option of text magnification and audio delivery along with the text. This will make the learning material useful for visually impaired also. CEMCA has compiled an HTML code in which the text and its corresponding audio can be inserted. This can be done as follows:

ODL Format Delivery

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- ❖ Prepare HTML document of the text to be inserted.
- ❖ Convert the text into speech by using Text Aloud or record the text using Audacity. Save the file in mp3 format.
- ❖ Copy the HTML code given in the box below into a Notepad.
- ❖ Replace the highlighted portion of the title with your text title.
- ❖ The code asks for the name of the audio file to be entered in the following lines.  
 Player.FileName='YOURAUDIO';  
 src="YOURAUDIO" autostart='1' designtimesp='5311' loop='0'>
- ❖ Replace YOUR AUDIO with the complete filename of your audio file along with the extension. These portions have been highlighted in the code given below.
- ❖ Open the HTML document of your text in notepad. Copy the entire text along with the HTML code. Paste the text in the space given between the two dotted lines with ADD written in the code below.
- ❖ Save the file as an HTML file in EasyNow folder..
- ❖ On opening the file the audio starts automatically. The text can be magnified by pressing ctrl+.

```

<html>
<head><title>EasyNow: Magnifier and zoom </title>

<script language="Javascript">
// -----
// Javascript Magnifier v 0.97
// Written by Dino Termini - termini@email.it - May 9, 2003
// This script is freeware (GPL) but if you use it, please let me know!
//
// Portions of code by zoomIN, zoomOUT
// Author: Nguyen Duong Minh (Obie) - obie4web@yahoo.com
// WWW: http://ObieWebsite.SourceForge.net
// License: GNU (GPL)
//
// Portions of code by Webreference Javascript Cookie Functions
// Jupirmedia Corporation
// http://www.internet.com
// -----
// Please refer to DEMO.htm file for details and usage

```



```
//  
// -----  
  
// Configuration parameters  
// -----  
// Measure unit in pixel (px) or points (pt)  
// measureUnit = "pt"  
measureUnit = "px"  
  
// Minimum size allowed for SIZE attribute (like in <FONT SIZE="1"> )  
minSize = 1;  
  
// Minimum size allowed for STYLE attribute (like in <FONT STYLE="font-size: 10px"> )  
minStyleSize = 10;  
  
// Maximum size allowed for SIZE attribute  
maxSize = 10;  
  
// Maximum size allowed for STYLE attribute  
maxStyleSize = 80;  
  
// Start size for tags with no SIZE attribute defined  
startSize = 1;  
  
// Start size for tags with no font-size STYLE or CLASS attribute defined  
startStyleSize = 10;  
  
// Increasing and decreasing step  
stepSize = 1;  
  
// Increasing step for STYLE definition (measure previously declared will be used)  
stepStyleSize = 2;  
  
// To set your own hotkeys, use key generator tool page included  
// Keys to zooming in (with and without CAPS lock). Default: "+"  
var keyin = 61;  
var keyinCAPS = 43;  
  
// Keys to zooming out (with and without CAPS lock). Default: "-"  
var keyout = 45;  
var keyoutCAPS = 95;
```





```
// -----
// Input values:
// name - name of the cookie
// value - value of the cookie
// [expires] - expiration date of the cookie (defaults to end of current session)
// [path] - path for which the cookie is valid (defaults to path of calling document)
// [domain] - domain for which the cookie is valid (defaults to domain of calling document)
// [secure] - Boolean value indicating if the cookie transmission requires a secure
transmission
// * an argument defaults when it is assigned null as a placeholder
// * a null placeholder is not required for trailing omitted arguments
function setCookie(name, value, expires, path, domain, secure) {
    // Check whether cookies enabled
    document.cookie = "Enabled=true";
    var cookieValid = document.cookie;

    // if retrieving the VALUE we just set actually works
    // then we know cookies enabled
    if (cookieValid.indexOf("Enabled=true") != -1) {
        var curCookie = name + "=" + escape(value) +
            ((expires) ? "; expires=" + expires.toGMTString() : "") +
            ((path) ? "; path=" + path : "") +
            ((domain) ? "; domain=" + domain : "") +
            ((secure) ? "; secure" : "");

        document.cookie = curCookie;
        return(true);
    }
    else {
        return(false);
    }
}

// Input value:
// name - name of the desired cookie
// * return string containing value of specified cookie or null if cookie does not exist
function getCookie(name) {
    var dc = document.cookie;
    var prefix = name + "=";
    var begin = dc.indexOf(prefix);
    if (begin == -1) {
```





```

    if ((childTree[i].childNodes.length == 1) && (childTree[i].childNodes[0].nodeName ==
    "#text"))
        retArray[j++] = childTree[i];
    else {
        tmpArray = searchTags(childTree[i].childNodes, level+1);
        for (var k=0;k<tmpArray.length; k++)
            retArray[j++] = tmpArray[k];
        retArray[j++] = childTree[i];
    }
}
else
    retArray[j++] = childTree[i];
}
return(retArray);
}

```

```

function changeFontSize(stepSize, stepStyleSize, useCookie) {

    if (document.body) {
        var myObj = searchTags(document.body.childNodes, 0);
        var myCookieSize = parseInt(getCookie("incrSize"));
        var myCookieStyleSize = parseInt(getCookie("incrStyleSize"));
        var myStepSize = stepSize;
        var myStepStyleSize = stepStyleSize;

        var now = new Date();

        // Fix the bug in Navigator 2.0, Macintosh
        fixDate(now);

        if (isNaN(myCookieSize)) myCookieSize = 0;
        if (isNaN(myCookieStyleSize)) myCookieStyleSize = 0;

        // For debug purpose only
        // if (!confirm("COOKIE: SIZE ["+myCookieSize+"] STYLESIZE
        ["+myCookieStyleSize+"]")) return(0);

        // Check valid increment/decrement sizes or useCookie parameter
        if (useCookie) {
            myStepSize = myCookieSize;
            myStepStyleSize = myCookieStyleSize;
        }
    }
}

```



```

now.setTime(now.getTime() + userExpiry);

myObjNumChilds = myObj.length;
for (i=0; i<myObjNumChilds; i++) {
  myObjName = myObj[i].nodeName;

  // Only some tags will be parsed
  if (myObjName != "#text" && myObjName != "HTML" &&
      myObjName != "HEAD" && myObjName != "TITLE" &&
      myObjName != "STYLE" && myObjName != "SCRIPT" &&
      myObjName != "BR" && myObjName != "TBODY" &&
      myObjName != "#comment" && myObjName != "FORM") {

    // Skip INPUT fields, if required
    if (!allowInputResize && myObjName == "INPUT") continue;

    size = parseInt(myObj[i].getAttribute("size"));

    // Internet Explorer uses a different DOM implementation
    if (myObj[i].currentStyle)
      styleSize = parseInt(myObj[i].currentStyle.fontSize);
    else
      styleSize = parseInt(window.getComputedStyle(myObj[i], null).fontSize);

    // For debug purpose only. Note: can be very annoying
    // if (!confirm("TAG ["+myObjName+"] SIZE ["+size+"] STYLE SIZE
["+styleSize+"]")) return(0);

    if (isNaN(size) || (size < minSize) || (size > maxSize))
      size = startSize;

    if (isNaN(styleSize) || (styleSize < minStyleSize) || (styleSize > maxStyleSize))
      styleSize = startStyleSize;

    if ( ((size > minSize) && (size < maxSize)) ||
          ((size == minSize) && (stepSize > 0)) ||
          ((size == maxSize) && (stepSize < 0)) || useCookie) {
      myObj[i].setAttribute("size", size+myStepSize);
    }

    if ( ((styleSize > minStyleSize) && (styleSize < maxStyleSize)) ||

```



```

        ((styleSize == minStyleSize) && (stepStyleSize > 0)) ||
        ((styleSize == maxStyleSize) && (stepStyleSize < 0)) || useCookie) {
    newStyleSize = styleSize+myStepStyleSize;
    myObj[i].style.fontSize = newStyleSize+measureUnit;
    }
    } // End if condition ("only some tags")
} // End main for cycle

// Set the cookies
if (!useCookie) {
    cookieIsSet = setCookie("incrSize", myStepSize+myCookieSize, now);
    cookieIsSet = setCookie("incrStyleSize", myStepStyleSize+myCookieStyleSize, now);
    if (alertEnabled && !cookieIsSet) {
        alert("Per mantenere in memoria la dimensione scelta, abilita i cookie nel browser");
    }
}

} // End if condition ("document.body exists")
} // End function declaration

function increaseFontSize() {
    if (document.body) {
        changeFontSize(stepSize, stepStyleSize, false);
    }
    else {
        if (alertEnabled) {
            alert("Spiacente, il tuo browser non supporta questa funzione");
        }
    }
}

function decreaseFontSize() {
    if (document.body) {
        myStepSize = -stepSize;
        myStepStyleSize = -stepStyleSize;
        changeFontSize(myStepSize, myStepStyleSize, false);
    }
    else {
        if (alertEnabled) {
            alert("Spiacente, il tuo browser non supporta questa funzione");
        }
    }
}

```



```
}  
  
function zoomin() {  
  if (window.parent.document.body.style.zoom < maxZoom) {  
    if (window.parent.document.body.style.zoom > 0) {  
      window.parent.document.body.style.zoom *= zoomFactor;  
    }  
    else {  
      window.parent.document.body.style.zoom = startIncZoom;  
    }  
  }  
  else {  
    if (alertEnabled) {  
      alert("Warning: Max size reached");  
    }  
  }  
}  
  
function audioplay ()  
{  
  Player.FileName= 'YOUR AUDIO';  
  Player.play();  
  alert("Audio File Streaming Process Initiated");  
}  
  
function zoomout() {  
  if ( (window.parent.document.body.style.zoom > minZoom) ||  
      (window.parent.document.body.style.zoom == 0) ) {  
    if (window.parent.document.body.style.zoom > 0) {  
      window.parent.document.body.style.zoom /= zoomFactor;  
    }  
    else {  
      window.parent.document.body.style.zoom = startDecZoom;  
    }  
  }  
  else {  
    if (alertEnabled) {  
      alert("Warning: Min size reached");  
    }  
  }  
}  
}
```



```
function checkzoom(e) {  
  
    if (document.all) {  
        myEvent = event.keyCode;  
    }  
    else {  
        myEvent = e.which;  
    }  
  
    switch(myEvent) {  
        case keyinle:  
        case keyinleCAPS:  
            zoomin();  
            break;  
  
        case keyoutle:  
        case keyoutleCAPS:  
            zoomout();  
            break;  
  
        case keyin:  
        case keyinCAPS:  
            increaseFontSize();  
            break;  
  
        case keyout:  
        case keyoutCAPS:  
            decreaseFontSize();  
            break;  
        case keyAudio:  
            audioplay ();  
            break;  
        default:  
            break;  
    }  
}  
  
if (document.layers) {  
    document.captureEvents(Event.KEYPRESS);  
}  
  
document.onkeypress = checkzoom;
```



```

</script>
</head>
<body onload="changeFontSize(0, 0, true);" alink="#0000ff" bgcolor="#f0f0f0"
link="#0000ff" vlink="#0000ff">
<table width=60%>
<tr>
<td>
<!------- Add ----->
>

<!------- Add ----->
>
</td>
</tr>
</table>

<table >

<tbody>
<tr>
<td style="font-size: 10px;" size="1" class="noresize" >

<div Id="playitnow" style="position:relative;visibility:'hidden';left:0;top:-10000" ><font
size=3 color="#465580" face="Arial"><b>
<OBJECT width="310" height="320"
classid="CLSID:22d6f312-b0f6-11d0-94ab-0080c74c7e95"
codebase="http://activex.microsoft.com/activex/controls/
mplayer/en/nsmp2inf.cab#Version=5,1,52,701"
standby="Loading Microsoft Windows Media Player components..." type="application/x-
oleobject">
<param name='fileName' value="">
<param name='animationatStart' value='1'>
<param name='transparentatStart' value='0'>
<param name='autoStart' value='1'>
<param name='ShowControls' value='1'>
<param name='ShowDisplay' value='0'>
<param name='ShowStatusBar' value='0'>
<param name='loop' value='0'>

```



```

<EMBED type='application/x-mplayer2'
pluginspage='http://microsoft.com/windows/mediaplayer/ en/download/'
id='mediaPlayer' name='mediaPlayer' displaysize='4' autosize='0'
bgcolor='darkblue' showcontrols='1' showtracker='1'
showdisplay='0' showstatusbar='0' videoborder3d='1' width='310' height='320'
src='YOUR AUDIO' autostart='1' designtimesp='5311' loop='0'>
</object>
</div>
Press buttons or press +/-/* keys on your keyboard- Reset cookies after use

<form name="{5C088896-C4CC-4430-A6D8-9DC9D2BE379D}">
<input value=" A+ " onclick="javascript:increaseFontSize();" style="background-color:
rgb(238, 238, 238); font-family: Verdana,Helvetica,sans-serif;" type="button">
<input value=" A- " onclick="javascript:decreaseFontSize();" style="background-color:
rgb(238, 238, 238); font-family: Verdana,Helvetica,sans-serif;" type="button">
<input value=" * " onclick="javascript:audioplay();" style="background-color: rgb(238,
238, 238); font-family: Verdana,Helvetica,sans-serif;" type="button">
<input value=" Reset cookies "
onclick="javascript:deleteCookie('incrSize');deleteCookie('incrStyleSize');changeFontSize(
0, 0, true)" style="background-color: rgb(238, 238, 238); font-family:
Verdana,Helvetica,sans-serif;" type="button">
</form>

</td>
</tr>

</tbody>
</table>

</body>
</html>

```

#### Activity

1. Copy the HTML code for Magnification and zoom in a Notepad. Save the file as Magnification.html in EasyNow folder for future use.
2. Open the file **Lesson1.html** prepared during textual delivery activity, copy the entire code and paste in the HTML code for magnification.
3. Replace YOUR AUDIO in the code with **Audiolesson1.mp3**. This audio file was prepared during Audio delivery activity.
4. Save the file as **Zoomlesson1.html** in EasyNow folder.
5. Make sure that the audio files and the magnification files are saved in the same folder.



## Code for ODL format

The distance learning mode should contain different types of delivery modes for the educational content to be used in the most effective manner. The Open and Distance Learning (ODL) format used by CEMCA has incorporated the textual form, video/ audio form, magnification and zoom facility as well as print option in one window. This creates a common platform for the different delivery modes for the easy accessibility of the learners.

ODL Format is presented in a Tabular form:

Column 1: Containing Activities

Column 2: The Lesson

Column 3: Audio/Video/Slide Shows and Supports for PRINT & Support for Visually impaired

CEMCA has compiled an HTML code in which the lessons in the different delivery modes can be inserted so that they will appear on the screen in ODL format. The ODL format requires the following formats of the educational contents:

- ❖ The text of the lesson in the html format.
- ❖ The text of the lesson in the pdf form.
- ❖ Audio/video of the lesson.
- ❖ The text and the audio incorporated in the Magnification format.

The HTML code for the ODL format is given in the box. Copy the HTML code in a Notepad to insert the relevant files. The relevant sections of the code have been highlighted. Save one copy of the code to be used for the future projects.

- ❖ In the title add the name of the lesson between ODL format and </title>. This will modify the title of the file in the browser window.
- ❖ Add the text of the lesson in html format in the space between the two dotted line with ADD written on them.
- ❖ Substitute YOURFILE by the name of your audio or video file.
- ❖ Replace YOUR.pdf with the name of your pdf file containing the text and YOURMag.htm with the name of your magnification file.



```

<html>
<head>
<title>
EasyNow: ODL Format </title>
</head>
<body>
<table border=2>
<tr>
<td width=15% valign=top>
<b>Activity</b>
</td>
<td width=60%>
<----- Add ----->

<----- Add ----->
</td>
<TD width=25% valign=top>
<h1><b>The Classroom</b></h1>
<div id="Enrich">
<OBJECT width="310" height="360"
classid=CLSID:22d6f312-b0f6-11d0-94ab-0080c74c7e95'
codebase='http://activex.microsoft.com/activex/controls/
mplayer/en/nsmp2inf.cab#Version=5,1,52,701'
standby='Loading Microsoft Windows Media Player components...' type='application/x-
oleobject'>
<param name='fileName' value="YOURFILE">
<param name='animationatStart' value='1'>
<param name='transparentatStart' value='0'>
<param name='autoStart' value='0'>
<param name='ShowControls' value='1'>

```



```

<param name='ShowDisplay' value='1'>
<param name='ShowStatusBar' value='1'>
<param name='loop' value='0'>
<EMBED type='application/x-mplayer2'
pluginspage='http://microsoft.com/windows/mediaplayer/en/download/'
id='mediaPlayer' name='mediaPlayer' displaysize='4' autosize='0'
bgcolor='darkblue' showcontrols='1' showtracker='1'
showdisplay='1' showstatusbar='0' videoborder3d='1' width='310' height='360'
src='YOURFILE' autostart='0' designtimesp='5311' loop='0'>
</OBJECT>
</div>
<li><a href='YOUR.pdf' onClick='window.print();return false' class=ltype5><b>Print the
Lesson</a>
<li><a href='YOURmag.htm' class=ltype5><b>Support For Visually impaired</b></a>
</td>
</table>
</TABLE>
</body>
</html>

```

### Activity

1. Open the html file of ODL format in Notepad.
2. Open the file **Lesson1.html** prepared during textual delivery activity, copy the entire code and paste in the HTML code in the space between the dotted lines with ADD written.
3. Replace YOURFILE by **Envideolesson2.mp3** prepared during video delivery activity. This file contains the enriched video of the lesson.
4. Replace YOUR.pdf in the code with **Lesson1.pdf** prepared during textual delivery activity.
5. Replace YOURMag.htm by **Zoomlesson1.html** prepared earlier.
6. Save the file as **Lesson1ODLformat.html** in EasyNow folder.



**Some important Links**

URL of the site	Purpose of the site
<a href="http://www.cemca.org">http:// www.cemca.org</a>	CEMCA site
<a href="http://download.openoffice.org/other.html#en-US">http://download.openoffice.org/other.html#en-US</a>	To download Open Office
<a href="http://www.W3schools.com">http://www.W3schools.com</a>	To learn HTML commands
<a href="http://validator.w3.org/">http://validator.w3.org/</a>	Validate HTML codes
<a href="http://www.nvu.com">http://www.nvu.com</a>	For an open source freeware web authorship tool.
<a href="http://www.adobe.com/products/dreamweaver/">http://www.adobe.com/products/dreamweaver/</a>	For Dreamweaver helps in developing HTML codes
<a href="mailto:pdf2txt@adobe.com">pdf2txt@adobe.com</a>	email id of site that converts pdf files to plain text files
<a href="mailto:pdf2html@adobe.com">pdf2html@adobe.com</a>	email id of site that converts pdf files to html files
<a href="http://www.adobe.com/products/acrobat/access_onlinetools.html">http://www.adobe.com/products/acrobat/access_onlinetools.html</a>	For adobe acrobat reader
<a href="http://valid.tjp.hu/tjpzoom/index_en.html">http://valid.tjp.hu/tjpzoom/index_en.html</a>	ZOOM images
<a href="http://obiewebsite.sourceforge.net/">http://obiewebsite.sourceforge.net/</a>	ZOOM html Pages
<a href="http://audacity.sourceforge.net">http://audacity.sourceforge.net</a>	To download Audacity
<a href="http://lame.sourceforge.net/">http://lame.sourceforge.net/</a>	To download Lame
<a href="http://cdexos.sourceforge.net/?q=download">http://cdexos.sourceforge.net/?q=download</a>	To download CDex
<a href="http://www.research.att.com/~ttsweb/tts/demo.php">http://www.research.att.com/~ttsweb/tts/demo.php</a>	A demo site that converts text to speech
<a href="http://www.any-video-converter.com/products/for_video_free/">http://www.any-video-converter.com/products/for_video_free/</a>	To download free version of Any Video Converter

