

# PHPExcel User Documentation – Reading Spreadsheet Files

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# 1. Spreadsheet File Formats

PHPExcel can read a number of different spreadsheet file formats, although not all features are supported by all of the readers. Check the Functionality Cross-Reference document (Functionality Cross-Reference.xls) for a list that identifies which features are supported by which readers.

Currently, PHPExcel supports the following File Types for Reading:

#### Excel5

The Microsoft Excel™ Binary file format (BIFF5 and BIFF8) is a binary file format that was used by Microsoft Excel™ between versions 95 and 2003. The format is supported (to various extents) by most spreadsheet programs. BIFF files normally have an extension of .xls. Documentation describing the format can be found online at <a href="http://msdn.microsoft.com/en-us/library/cc313154(v=office.12).aspx">http://msdn.microsoft.com/en-us/library/cc313154(v=office.12).aspx</a> or from <a href="http://download.microsoft.com/download/2/4/8/24862317-78F0-4C4B-B355-C7B2C1D997DB/[MS-XLS].pdf">http://download.microsoft.com/download/2/4/8/24862317-78F0-4C4B-B355-C7B2C1D997DB/[MS-XLS].pdf</a> (as a downloadable PDF).

#### Excel2003XML

Microsoft Excel<sup> $\mathbb{M}$ </sup> 2003 included options for a file format called SpreadsheetML. This file is a zipped XML document. It is not very common, but its core features are supported. Documentation for the format can be found at <a href="http://msdn.microsoft.com/enus/library/aa140066%28office.10%29.aspx">http://msdn.microsoft.com/enus/library/aa140066%28office.10%29.aspx</a> though it's sadly rather sparse in its detail.

#### Excel2007

Microsoft Excel™ 2007 shipped with a new file format, namely Microsoft Office Open XML SpreadsheetML, and Excel 2010 extended this still further with its new features such as sparklines. These files typically have an extension of .xlsx. This format is based around a zipped collection of eXtensible Markup Language (XML) files. Microsoft Office Open XML SpreadsheetML is mostly standardized in ECMA 376 (<a href="http://www.ecma-international.org/news/TC45\_current\_work/TC45\_available\_docs.htm">http://www.ecma-international.org/news/TC45\_current\_work/TC45\_available\_docs.htm</a>) and ISO 29500.

#### **OOCalc**

aka Open Document Format (ODF) or OASIS, this is the OpenOffice.org XML File Format for spreadsheets. It comprises a zip archive including several components all of which are text files, most of these with markup in the eXtensible Markup Language (XML). It is the standard file format for OpenOffice.org Calc and StarCalc, and files typically have an extension of .ods. The published specification for the file format is available from the OASIS Open Office XML Format Technical Committee web page (http://www.oasisopen.org/committees/tc\_home.php?wg\_abbrev=office#technical). Other information **Format** available from OpenOffice.org the XML File web page (<a href="http://xml.openoffice.org/general.html">http://xml.openoffice.org/general.html</a>), part of the OpenOffice.org project.

#### **SYLK**

This is the Microsoft Multiplan Symbolic Link Interchange (SYLK) file format. Multiplan was a predecessor to Microsoft Excel™. Files normally have an extension of .slk. While not common, there are still a few applications that generate SYLK files as a crossplatform option, because (despite being limited to a single worksheet) it is a simple format to implement, and supports some basic data and cell formatting options (unlike CSV files).

#### **Gnumeric**

The Gnumeric file format is used by the Gnome Gnumeric spreadsheet application, and typically files have an extension of .gnumeric. The file contents are stored using eXtensible Markup Language (XML) markup, and the file is then compressed using the GNU project's gzip compression library. <a href="http://projects.gnome.org/gnumeric/doc/file-format-gnumeric.shtml">http://projects.gnome.org/gnumeric/doc/file-format-gnumeric.shtml</a>





#### **CSV**

Comma Separated Value (CSV) file format is a common structuring strategy for text format files. In CSV flies, each line in the file represents a row of data and (within each line of the file) the different data fields (or columns) are separated from one another using a comma (","). If a data field contains a comma, then it should be enclosed (typically in quotation marks ("). Sometimes tabs "\t" or the pipe symbol ("|") are used as separators instead of a comma. Because CSV is a text-only format, it doesn't support any data formatting options.





# 2. Loading a Spreadsheet File

The simplest way to load a workbook file is to let PHPExcel's IO Factory identify the file type and load it, calling the static load() method of the PHPExcel\_IOFactory class.

```
$inputFileName = './sampleData/example1.xls';

/** Load $inputFileName to a PHPExcel Object **/
$objPHPExcel = PHPExcel_IOFactory::load($inputFileName);
```

```
See Examples/Reader/exampleReader01.php for a working example of this code.
```

The load() method will attempt to identify the file type, and instantiate a loader for that file type; using it to load the file and store the data and any formatting in a PHPExcel object.

The method makes an initial guess at the loader to instantiate based on the file extension; but will test the file before actually executing the load: so if (for example) the file is actually a CSV file that has been given a .xls extension (quite a common practise), it will reject the Excel5 loader that it would normally use for a .xls file; and test the file using the other loaders until it finds the appropriate loader, and then use that to read the file.

While easy to implement in your code, and you don't need to worry about the file type; this isn't the most efficient method to load a file; and it lacks the flexibility to configure the loader in any way before actually reading the file into a PHPExcel object.



# 3. Creating a Reader and Loading a Spreadsheet File

If you know the file type of the spreadsheet file that you need to load, you can instantiate a new reader object for that file type, then use the reader's load() method to read the file to a PHPExcel object. It is possible to instantiate the reader objects for each of the different supported filetype by name. However, you may get unpredictable results if the file isn't of the right type (e.g. it is a CSV with an extension of .xls), although this type of exception should normally be trapped.

```
$inputFileName = './sampleData/example1.xls';

/** Create a new Excel5 Reader **/
$objReader = new PHPExcel_Reader_Excel5();

// $objReader = new PHPExcel_Reader_Excel2007();

// $objReader = new PHPExcel_Reader_Excel2003XML();

// $objReader = new PHPExcel_Reader_OOCalc();

// $objReader = new PHPExcel_Reader_SYLK();

// $objReader = new PHPExcel_Reader_Gnumeric();

// $objReader = new PHPExcel_Reader_CSV();

/** Load $inputFileName to a PHPExcel Object **/
$objPHPExcel = $objReader->load($inputFileName);
```

```
See Examples/Reader/exampleReader02.php for a working example of this code.
```

Alternatively, you can use the IO Factory's createReader() method to instantiate the reader object for you, simply telling it the file type of the reader that you want instantiating.

```
$inputFileType = 'Excel5';
// $inputFileType = 'Excel2007';
// $inputFileType = 'Excel2003XML';
// $inputFileType = 'OOCalc';
// $inputFileType = 'SYLK';
// $inputFileType = 'Gnumeric';
// $inputFileType = 'CSV';
$inputFileName = './sampleData/example1.xls';

/** Create a new Reader of the type defined in $inputFileType **/
$objReader = PHPExcel_IOFactory::createReader($inputFileType);
/** Load $inputFileName to a PHPExcel Object **/
$objPHPExcel = $objReader->load($inputFileName);
```

```
See Examples/Reader/exampleReader03.php for a working example of this code.
```

If you're uncertain of the filetype, you can use the IO Factory's identify() method to identify the reader that you need, before using the createReader() method to instantiate the reader object.

```
$inputFileName = './sampleData/example1.xls';

/** Identify the type of $inputFileName **/
$inputFileType = PHPExcel_IOFactory::identify($inputFileName);
/** Create a new Reader of the type that has been identified **/
$objReader = PHPExcel_IOFactory::createReader($inputFileType);
/** Load $inputFileName to a PHPExcel Object **/
$objPHPExcel = $objReader->load($inputFileName);
```

See Examples/Reader/exampleReader04.php for a working example of this code.



# 4. Spreadsheet Reader Options

Once you have created a reader object for the workbook that you want to load, you have the opportunity to set additional options before executing the load() method.

# 4.1. Reading Only Data from a Spreadsheet File

If you're only interested in the cell values in a workbook, but don't need any of the cell formatting information, then you can set the reader to read only the data values and any formulae from each cell using the setReadDataOnly() method.

```
$inputFileType = 'Excel5';
$inputFileName = './sampleData/example1.xls';

/** Create a new Reader of the type defined in $inputFileType **/
$objReader = PHPExcel_IOFactory::createReader($inputFileType);
/** Advise the Reader that we only want to load cell data **/
$objReader->setReadDataOnly(true);
/** Load $inputFileName to a PHPExcel Object **/
$objPHPExcel = $objReader->load($inputFileName);
```

See Examples/Reader/exampleReader05.php for a working example of this code.

It is important to note that Workbooks (and PHPExcel) store dates and times as simple numeric values: they can only be distinguished from other numeric values by the format mask that is applied to that cell. When setting read data only to true, PHPExcel doesn't read the cell format masks, so it is not possible to differentiate between dates/times and numbers.

The Gnumeric loader has been written to read the format masks for date values even when read data only has been set to true, so it can differentiate between dates/times and numbers; but this change hasn't yet been implemented for the other readers.

Reading Only Data from a Spreadsheet File applies to Readers:

Excel2007	YES	Excel5	YES	Excel2003XML	YES
OOCalc	YES	SYLK	NO	Gnumeric	YES
CSV	NO				



# 4.2. Reading Only Named WorkSheets from a File

If your workbook contains a number of worksheets, but you are only interested in reading some of those, then you can use the setLoadSheetsOnly() method to identify those sheets you are interested in reading.

To read a single sheet, you can pass that sheet name as a parameter to the setLoadSheetsOnly() method.

```
$inputFileType = 'Excel5';
$inputFileName = './sampleData/example1.xls';
$sheetname = 'Data Sheet #2';

/** Create a new Reader of the type defined in $inputFileType **/
$objReader = PHPExcel_IOFactory::createReader($inputFileType);
/** Advise the Reader of which WorkSheets we want to load **/
$objReader->setLoadSheetsOnly($sheetname);
/** Load $inputFileName to a PHPExcel Object **/
$objPHPExcel = $objReader->load($inputFileName);
```

```
See Examples/Reader/exampleReader07.php for a working example of this code.
```

If you want to read more than just a single sheet, you can pass a list of sheet names as an array parameter to the setLoadSheetsOnly() method.

```
$inputFileType = 'Excel5';
$inputFileName = './sampleData/example1.xls';
$sheetnames = array('Data Sheet #1','Data Sheet #3');

/** Create a new Reader of the type defined in $inputFileType **/
$objReader = PHPExcel_IOFactory::createReader($inputFileType);
/** Advise the Reader of which WorkSheets we want to load **/
$objReader->setLoadSheetsOnly($sheetnames);
/** Load $inputFileName to a PHPExcel Object **/
$objPHPExcel = $objReader->load($inputFileName);
```

```
See Examples/Reader/exampleReader08.php for a working example of this code.
```

To reset this option to the default, you can call the setLoadAllSheets() method.

```
$inputFileType = 'Excel5';
$inputFileName = './sampleData/example1.xls';

/** Create a new Reader of the type defined in $inputFileType **/
$objReader = PHPExcel_IOFactory::createReader($inputFileType);
/** Advise the Reader to load all Worksheets **/
$objReader->setLoadAllSheets();
/** Load $inputFileName to a PHPExcel Object **/
$objPHPExcel = $objReader->load($inputFileName);
```

```
See Examples/Reader/exampleReader06.php for a working example of this code.
```

Reading Only Named WorkSheets from a File applies to Readers:

```
Excel2007 YES Excel5 YES Excel2003XML YES OOCalc YES SYLK NO Gnumeric YES CSV NO
```



# 4.3. Reading Only Specific Columns and Rows from a File (Read Filters)

If you are only interested in reading part of a worksheet, then you can write a filter class that identifies whether or not individual cells should be read by the loader. A read filter must implement the PHPExcel\_Reader\_IReadFilter interface, and contain a readCell() method that accepts arguments of \$column, \$row and \$worksheetName, and return a boolean true or false that indicates whether a workbook cell identified by those arguments should be read or not.

```
$inputFileType = 'Excel5';
$inputFileName = './sampleData/example1.xls';
$sheetname = 'Data Sheet #3';
/** Define a Read Filter class implementing PHPExcel Reader IReadFilter *
class MyReadFilter implements PHPExcel Reader IReadFilter
   public function readCell($column, $row, $worksheetName = '') {
           Read rows 1 to 7 and columns A to E only
        if ($row >= 1 && $row <= 7) {
           if (in array($column, range('A', 'E'))) {
               return true;
        }
        return false;
    Create an Instance of our Read Filter **/
$filterSubset = new MyReadFilter();
/** Create a new Reader of the type defined in $inputFileType **/
$objReader = PHPExcel IOFactory::createReader($inputFileType);
 ** Tell the Reader that we want to use the Read Filter
$objReader->setReadFilter($filterSubset);
                                        match our filter to PHPExcel **/
 ** Load only the rows and columns that
$objPHPExcel = $objReader->load($inputFileName);
```

See Examples/Reader/exampleReader09.php for a working example of this code.

This example is not particularly useful, because it can only be used in a very specific circumstance (when you only want cells in the range A1:E7 from your worksheet. A generic Read Filter would probably be more useful:

```
/** Define a Read Filter class implementing PHPExcel_Reader_IReadFilter *
/
class MyReadFilter implements PHPExcel_Reader_IReadFilter
{
    private $_startRow = 0;
    private $_endRow = 0;
    private $_columns = array();

    /** Get the list of rows and columns to read */
    public function __construct($startRow, $endRow, $columns) {
        $this->_startRow = $startRow;
        $this->_endRow = $endRow;
        $this->_columns = $columns;
    }
}
```



```
public function readCell($column, $row, $worksheetName = '') {
    // Only read the rows and columns that were configured
    if ($row >= $this->_startRow && $row <= $this->_endRow) {
        if (in_array($column,$this->_columns)) {
            return true;
        }
    }
    return false;
}

/** Create an Instance of our Read Filter, passing in the cell range **/
$filterSubset = new MyReadFilter(9,15,range('G','K'));
```

See Examples/Reader/exampleReader10.php for a working example of this code.

This can be particularly useful for conserving memory, by allowing you to read and process a large workbook in "chunks": an example of this usage might be when transferring data from an Excel worksheet to a database.

```
$inputFileType = 'Excel5';
$inputFileName = './sampleData/example2.xls';
/** Define a Read Filter class implementing PHPExcel Reader IReadFilter *
class chunkReadFilter implements PHPExcel Reader IReadFilter
   private $ startRow = 0;
   private $ endRow = 0;
    /** Set the list of rows that we want to read */
   public function setRows($startRow, $chunkSize) {
        $this->_startRow = $startRow;
        $this-> endRow = $startRow + $chunkSize;
   public function readCell($column, $row, $worksheetName = '') {
        // Only read the heading row, and the configured rows
        if (($row == 1) ||
           ($row >= $this-> startRow && $row < $this-> endRow)) {
           return true;
       return false;
   }
}
/** Create a new Reader of the type defined in $inputFileType **/
$objReader = PHPExcel IOFactory::createReader($inputFileType);
/** Define how many rows we want to read for each "chunk" **/
$chunkSize = 2048;
 ** Create a new Instance of our Read Filter **/
$chunkFilter = new chunkReadFilter();
/** Tell the Reader that we want to use the Read Filter **/
$objReader->setReadFilter($chunkFilter);
```





```
/** Loop to read our worksheet in "chunk size" blocks **/
for ($startRow = 2; $startRow <= 65536; $startRow += $chunkSize) {
    /** Tell the Read Filter which rows we want this iteration **/
    $chunkFilter->setRows($startRow,$chunkSize);
    /** Load only the rows that match our filter **/
    $objPHPExcel = $objReader->load($inputFileName);
    // Do some processing here
}
```

See Examples/Reader/exampleReader12.php for a working example of this code.

#### Using Read Filters applies to:

Excel2007	YES	Excel5	YES	Excel2003XML	YES
00Calc	YES	SYLK	NO	Gnumeric	YES
CSV	YES				



# 4.4. Combining Multiple Files into a Single PHPExcel Object

While you can limit the number of worksheets that are read from a workbook file using the setLoadSheetsOnly() method, certain readers also allow you to combine several individual "sheets" from different files into a single PHPExcel object, where each individual file is a single worksheet within that workbook. For each file that you read, you need to indicate which worksheet index it should be loaded into using the setSheetIndex() method of the \$objReader, then use the loadIntoExisting() method rather than the load() method to actually read the file into that worksheet.

```
$inputFileType = 'CSV';
$inputFileNames = array('./sampleData/example1.csv',
                        './sampleData/example2.csv'
                        './sampleData/example3.csv'
/** Create a new Reader of the type defined in $inputFileType **/
$objReader = PHPExcel IOFactory::createReader($inputFileType);
/** Extract the first named file from the array list **/
$inputFileName = array shift($inputFileNames);
 ** Load the initial file to the first worksheet in a PHPExcel Object
$objPHPExcel = $objReader->load($inputFileName);
 ** Set the worksheet title (to the filename that we've loaded) **/
$objPHPExcel->getActiveSheet()
           ->setTitle(pathinfo($inputFileName, PATHINFO BASENAME));
/** Loop through all the remaining files in the list **/
foreach($inputFileNames as $sheet => $inputFileName) {
    /** Increment the worksheet index pointer for the Reader **/
    $objReader->setSheetIndex($sheet+1);
    ^{\prime**} Load the current file into a new worksheet in PHPExcel ^{**}/
    $objReader->loadIntoExisting($inputFileName,$objPHPExcel);
    /** Set the worksheet title (to the filename that we've loaded)
    $objPHPExcel->getActiveSheet()
                ->setTitle(pathinfo($inputFileName, PATHINFO BASENAME));
```

See Examples/Reader/exampleReader13.php for a working example of this code.

Note that using the same sheet index for multiple sheets won't append files into the same sheet, but overwrite the results of the previous load. You cannot load multiple CSV files into the same worksheet.

Combining Multiple Files into a Single PHPExcel Object applies to:

Excel2007	NO	Excel5	NO	Excel2003XML	NO
00Calc	NO	SYLK	YES	Gnumeric	NO
CSV	YFS				



# 4.5. Combining Read Filters with the setSheetIndex() method to split a large CSV file across multiple Worksheets

An Excel5 BIFF .xls file is limited to 65536 rows in a worksheet, while the Excel2007 Microsoft Office Open XML SpreadsheetML .xlsx file is limited to 1,048,576 rows in a worksheet; but a CSV file is not limited other than by available disk space. This means that we wouldn't ordinarily be able to read all the rows from a very large CSV file that exceeded those limits, and save it as an Excel5 or Excel2007 file. However, by using Read Filters to read the CSV file in "chunks" (using the chunkReadFilter Class that we defined in section 4.3 above), and the setSheetIndex() method of the SobiReader, we can split the CSV file across several individual worksheets.

```
$inputFileType = 'CSV';
$inputFileName = './sampleData/example2.csv';
echo 'Loading file ',pathinfo($inputFileName,PATHINFO BASENAME),' using IOF
actory with a defined reader type of ',$inputFileType,'<br/>br />';
/** Create a new Reader of the type defined in $inputFileType **/
$objReader = PHPExcel IOFactory::createReader($inputFileType);
/** Define how many rows we want to read for each "chunk" **/
chunkSize = 65530;
/** Create a new Instance of our Read Filter **/
$chunkFilter = new chunkReadFilter();
/** Tell the Reader that we want to use the Read Filter **/
     and that we want to store it in contiquous rows/columns **/
$objReader->setReadFilter($chunkFilter)
          ->setContiguous(true);
/** Instantiate a new PHPExcel object manually **/
$objPHPExcel = new PHPExcel();
/** Set a sheet index **/
$sheet = 0;
/** Loop to read our worksheet in "chunk size" blocks **/
/** $startRow is set to 2 initially because we always read the headings
for ($startRow = 2; $startRow <= 1000000; $startRow += $chunkSize) {</pre>
     /** Tell the Read Filter which rows we want to read this loop
    $chunkFilter->setRows($startRow,$chunkSize);
    /** Increment the worksheet index pointer for the Reader **/
    $objReader->setSheetIndex($sheet);
    /** Load only the rows that match our filter into a new worksheet
    $objReader->loadIntoExisting($inputFileName, $objPHPExcel);
    /** Set the worksheet title for the sheet that we've justloaded) **/
/** and increment the sheet index as well **/
         and increment the sheet index as well **/
    $objPHPExcel->getActiveSheet()->setTitle('Country Data #'.(++$sheet));
```

See Examples/Reader/exampleReader14.php for a working example of this code.

This code will read 65,530 rows at a time from the CSV file that we're loading, and store each "chunk" in a new worksheet.

The setContiguous() method for the Reader is important here. It is applicable only when working with a Read Filter, and identifies whether or not the cells should be stored by their position within the CSV file, or their position relative to the filter.





For example, if the filter returned true for cells in the range B2:C3, then with setContiguous set to false (the default) these would be loaded as B2:C3 in the PHPExcel object; but with setContiguous set to true, they would be loaded as A1:B2.

Splitting a single loaded file across multiple worksheets applies to:

Excel2007	NO	Excel5	NO	Excel2003XML	NO
00Calc	NO	SYLK	NO	Gnumeric	NO
CSV	YES				



# 4.6. Pipe or Tab Separated Value Files

The CSV loader defaults to loading a file where comma is used as the separator, but you can modify this to load tab- or pipe-separated value files using the setDelimiter() method.

```
$inputFileType = 'CSV';
$inputFileName = './sampleData/example1.tsv';

/** Create a new Reader of the type defined in $inputFileType **/
$objReader = PHPExcel_IOFactory::createReader($inputFileType);
/** Set the delimiter to a TAB character **/
$objReader->setDelimiter("\t");
// $objReader->setDelimiter('\t");
//* Load the file to a PHPExcel Object **/
$objPHPExcel = $objReader->load($inputFileName);
```

```
See Examples/Reader/exampleReader15.php for a working example of this code.
```

In addition to the delimiter, you can also use the following methods to set other attributes for the data load:

```
setEnclosure() default is "
setLineEnding() default is PHP_EOL
setInputEncoding() default is UTF-8
```

Setting CSV delimiter applies to:

Excel2007	NO	Excel5	NO	Excel2003XML	NO
00Calc	NO	SYLK	NO	Gnumeric	NO
CSV	YFS				



#### 4.7. A Brief Word about the Advanced Value Binder

When loading data from a file that contains no formatting information, such as a CSV file, then data is read either as strings or numbers (float or integer). This means that PHPExcel does not automatically recognise dates/times (such as "16-Apr-2009" or "13:30"), booleans ("TRUE" or "FALSE"), percentages ("75%"), hyperlinks ("http://www.phpexcel.net"), etc as anything other than simple strings. However, you can apply additional processing that is executed against these values during the load process within a Value Binder.

A Value Binder is a class that implement the PHPExcel\_Cell\_IValueBinder interface. It must contain a bindValue() method that accepts a PHPExcel\_Cell and a value as arguments, and return a boolean true or false that indicates whether the workbook cell has been populated with the value or not. The Advanced Value Binder implements such a class: amongst other tests, it identifies a string comprising "TRUE" or "FALSE" (based on locale settings) and sets it to a boolean; or a number in scientific format (e.g. "1.234e-5") and converts it to a float; or dates and times, converting them to their Excel timestamp value - before storing the value in the cell object. It also sets formatting for strings that are identified as dates, times or percentages. It could easily be extended to provide additional handling (including text or cell formatting) when it encountered a hyperlink, or HTML markup within a CSV file.

So using a Value Binder allows a great deal more flexibility in the loader logic when reading unformatted text files.

```
/** Tell PHPExcel that we want to use the Advanced Value Binder **/
PHPExcel_Cell::setValueBinder( new PHPExcel_Cell_AdvancedValueBinder() );

$inputFileType = 'CSV';
$inputFileName = './sampleData/example1.tsv';

$objReader = PHPExcel_IOFactory::createReader($inputFileType);
$objReader->setDelimiter("\t");
$objPHPExcel = $objReader->load($inputFileName);
```

See Examples/Reader/exampleReader15.php for a working example of this code.

#### Loading using a Value Binder applies to:

Excel2007	NO	Excel5	NO	Excel2003XML	NO
OOCalc	NO	SYLK	NO	Gnumeric	NO
CSV	YES				



# 5. Error Handling

Of course, you should always apply some error handling to your scripts as well. PHPExcel throws exceptions, so you can wrap all your code that accesses the library methods within Try/Catch blocks to trap for any problems that are encountered, and deal with them in an appropriate manner. The PHPExcel Readers throw a PHPExcel\_Reader\_Exception.

```
$inputFileName = './sampleData/example-1.xls';

try {
    /** Load $inputFileName to a PHPExcel Object **/
    $objPHPExcel = PHPExcel_IOFactory::load($inputFileName);
} catch(PHPExcel_Reader_Exception $e) {
    die('Error loading file: '.$e->getMessage());
}
```

See Examples/Reader/exampleReader16.php for a working example of this code.



# 6. Helper Methods

You can retrieve a list of worksheet names contained in a file without loading the whole file by using the Reader's listWorksheetNames() method; similarly, a listWorksheetInfo() method will retrieve the dimensions of worksheet in a file without needing to load and parse the whole file.

The listWorksheetNames() method returns a simple array listing each worksheet name within the workbook:

```
$objReader = PHPExcel_IOFactory::createReader($inputFileType);
$worksheetNames = $objReader->listWorksheetNames($inputFileName);

echo '<h3>Worksheet Names</h3>';
echo '';
foreach ($worksheetNames as $worksheetName) {
    echo '', $worksheetName, '';
}
echo '';
```

See Examples/Reader/exampleReader18.php for a working example of this code.

The listWorksheetInfo() method returns a nested array, with each entry listing the name and dimensions for a worksheet:

See Examples/Reader/exampleReader19.php for a working example of this code.