



# 在PHP中操作Excel

公开课2012-12

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1	1000000	1000000	1000000	1000000
2	1000000	1000000	1000000	1000000
3	1000000	1000000	1000000	1000000
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17	1000000	1000000	1000000	1000000
18	1000000	1000000	1000000	1000000
19	1000000	1000000	1000000	1000000
20	1000000	1000000	1000000	1000000



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# Excel简介

- p Microsoft Excel是微软公司的办公软件  
Microsoft office的组件之一
- p 数据的处理、统计分析和辅助决策操作
- p 广泛地应用于管理、统计财经、金融等众多领域



## 版本与扩展名

pExcel97-2003

.xls

pExcel2007

.xlsx



# 认识Excel

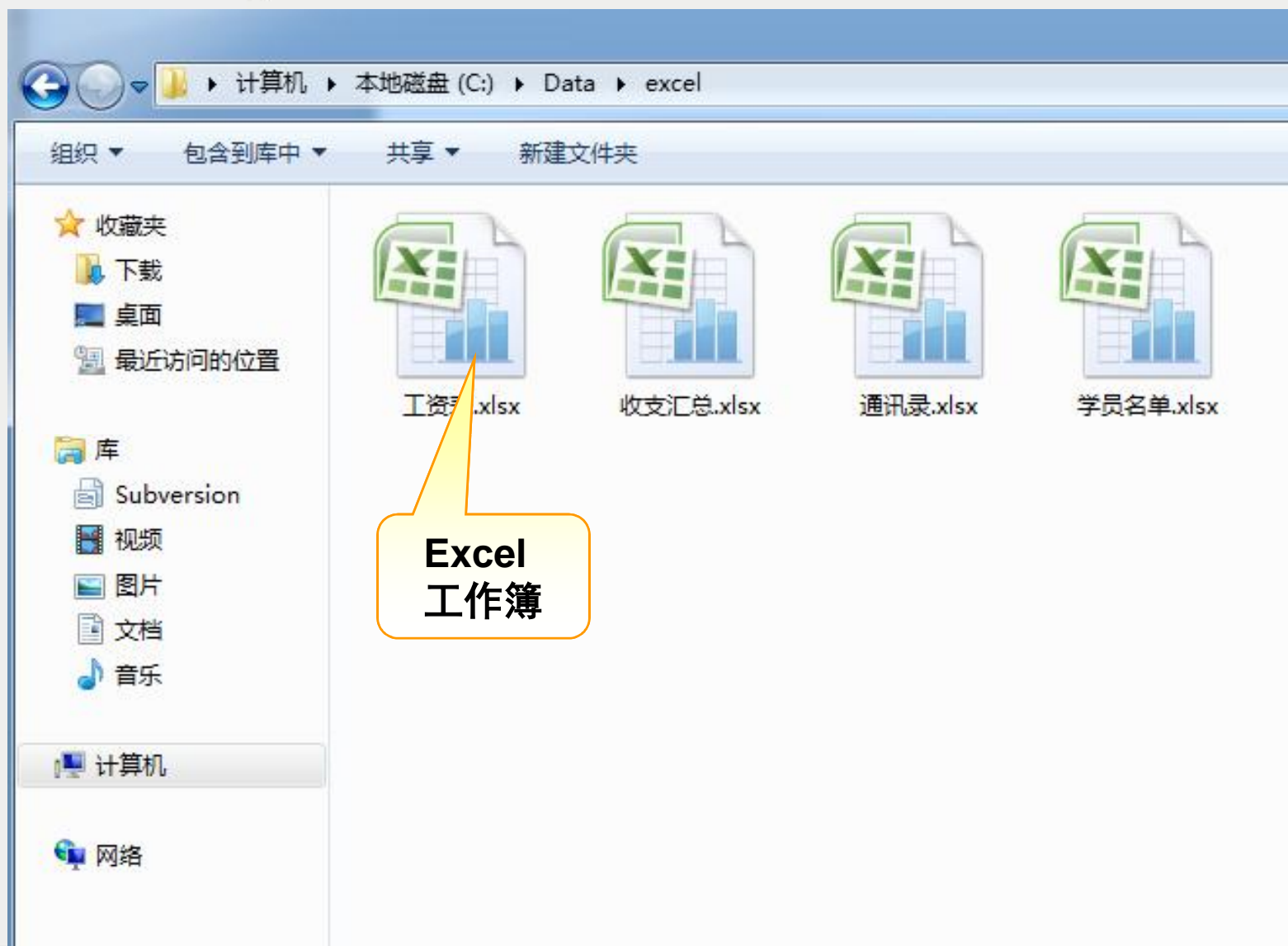
**p** 工作簿Workbook

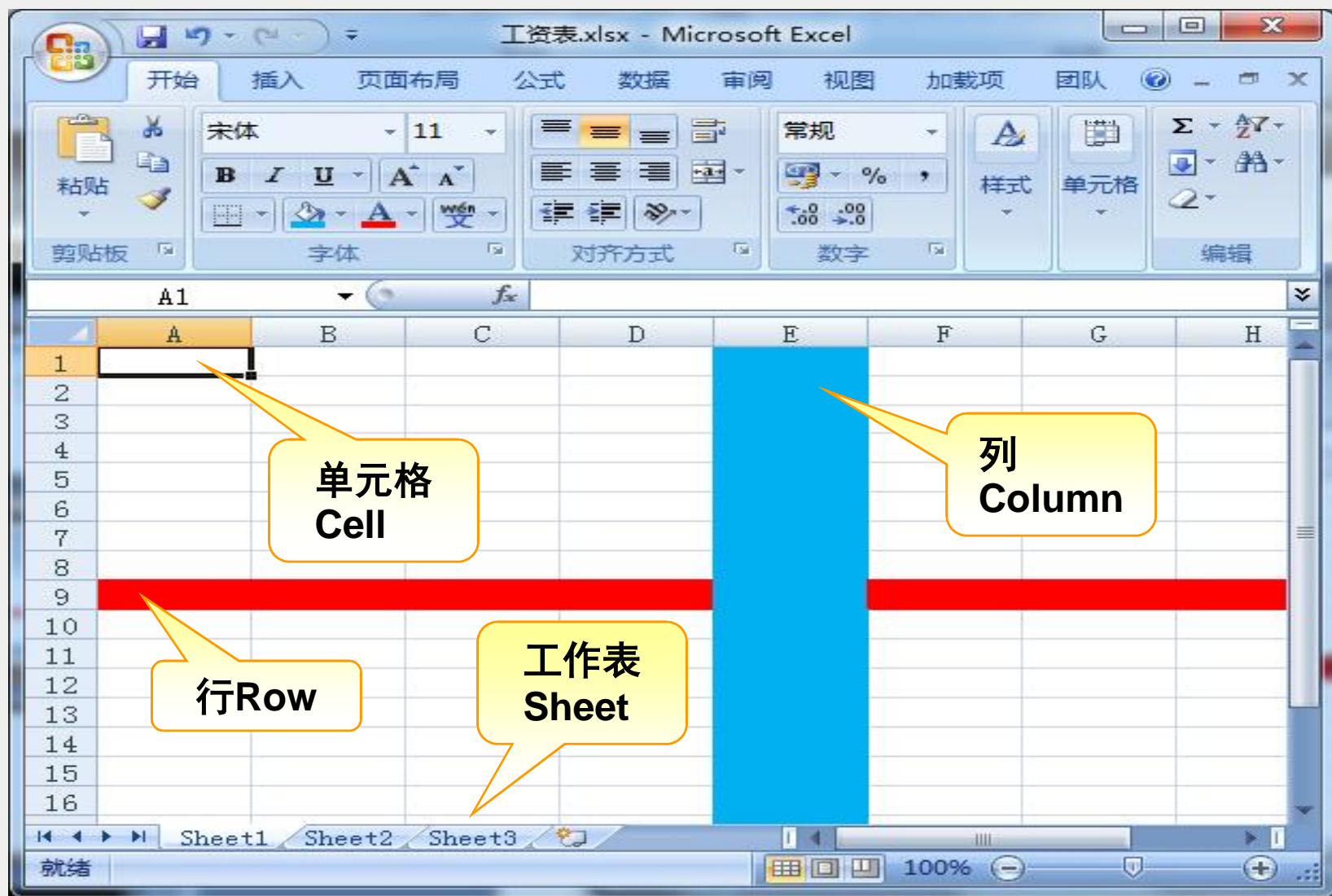
**p** 工作表Worksheet

**p** 行Row

**p** 列Column

**p** 单元格Cell









# Excel中常用操作

**p** 活动工作表 **ActiveSheet**

**p** 工作表标题 **Title**

**p** 样式修饰

**n** 大小、颜色、加粗、边框、填充、对齐、千分位与小数位、条件格式、前导零

**n** 列宽、列高、自动换行、合并

**n** 插入图片

**n** 公式



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PHPExcel是相当强大的 MS Office Excel 文档生成类库，可以输出比较复杂格式数据。

## PHPExcel - OpenXML - Read, Write and Create Excel documents in PHP - Spreadsheet engine

Project providing a set of classes for the PHP programming language, which allow you to write to and read from different spreadsheet file formats, like Excel (BIFF) .xls, Excel 2007 (OfficeOpenXML) .xlsx, CSV, Libre/OpenOffice Calc .ods, Gnumeric, PDF, HTML, ... This project is built around Microsoft's OpenXML standard and PHP.


Checkout the [Features](#) this class set provides, such as setting spreadsheet meta data (author, title, description, ...), multiple worksheets, different fonts and font styles, cell borders, fills, gradients, adding images to your spreadsheet, calculating formulas, converting between file types and much, much more!



# PHPExcel

<http://phpexcel.codeplex.com/>

download

CURRENT	PHPExcel 1.7.8
DATE	Fri Oct 12, 2012 at 8:00 AM
STATUS	Stable
DOWNLOADS	50,389
RATING	 2 ratings



## 环境要求

PHP version 5.2.0 or newer

PHP extension php\_xml enabled

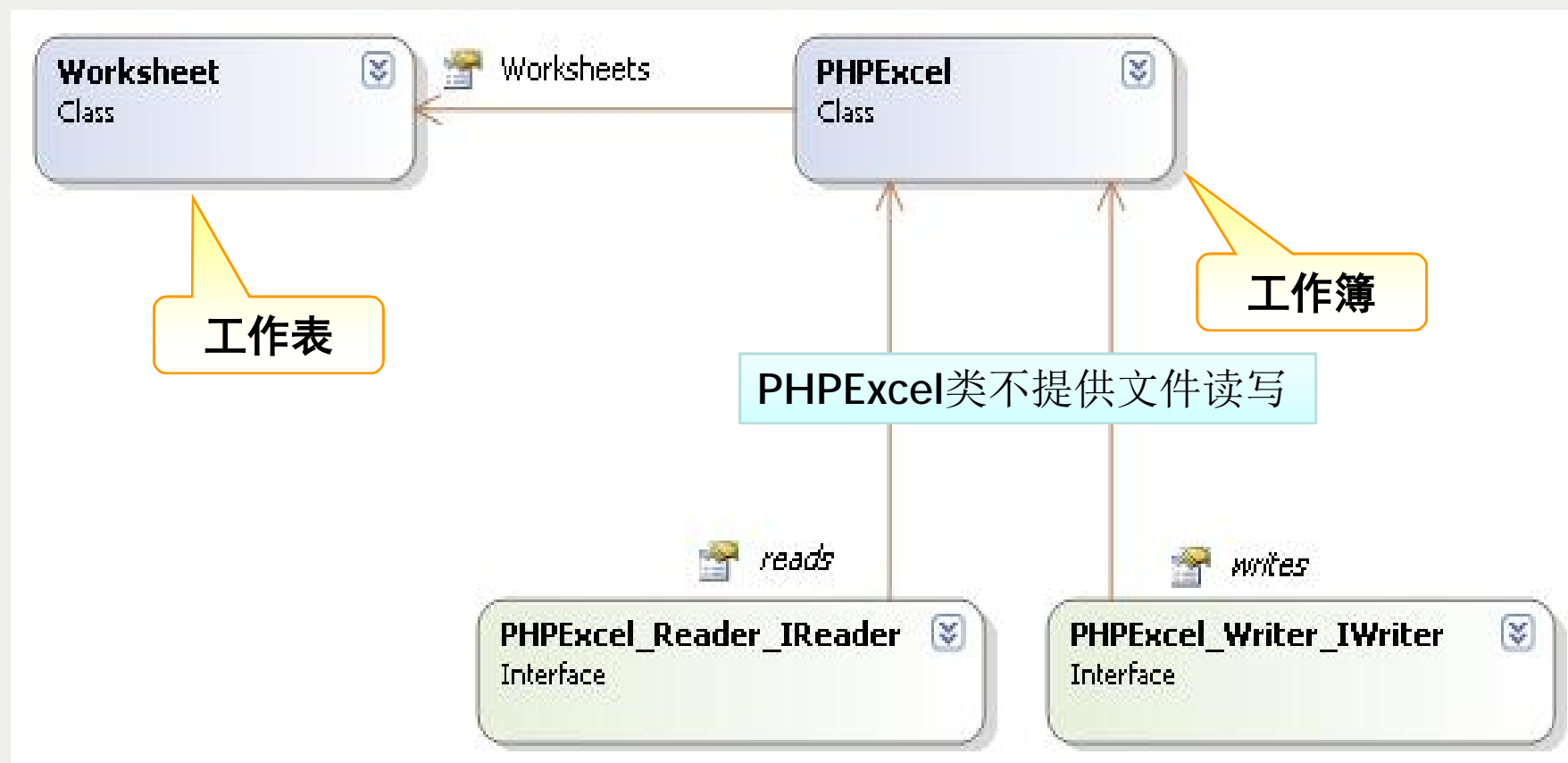
PHP extension php\_gd2 enabled

PHP extension php\_zip enabled

only needed by Excel2007

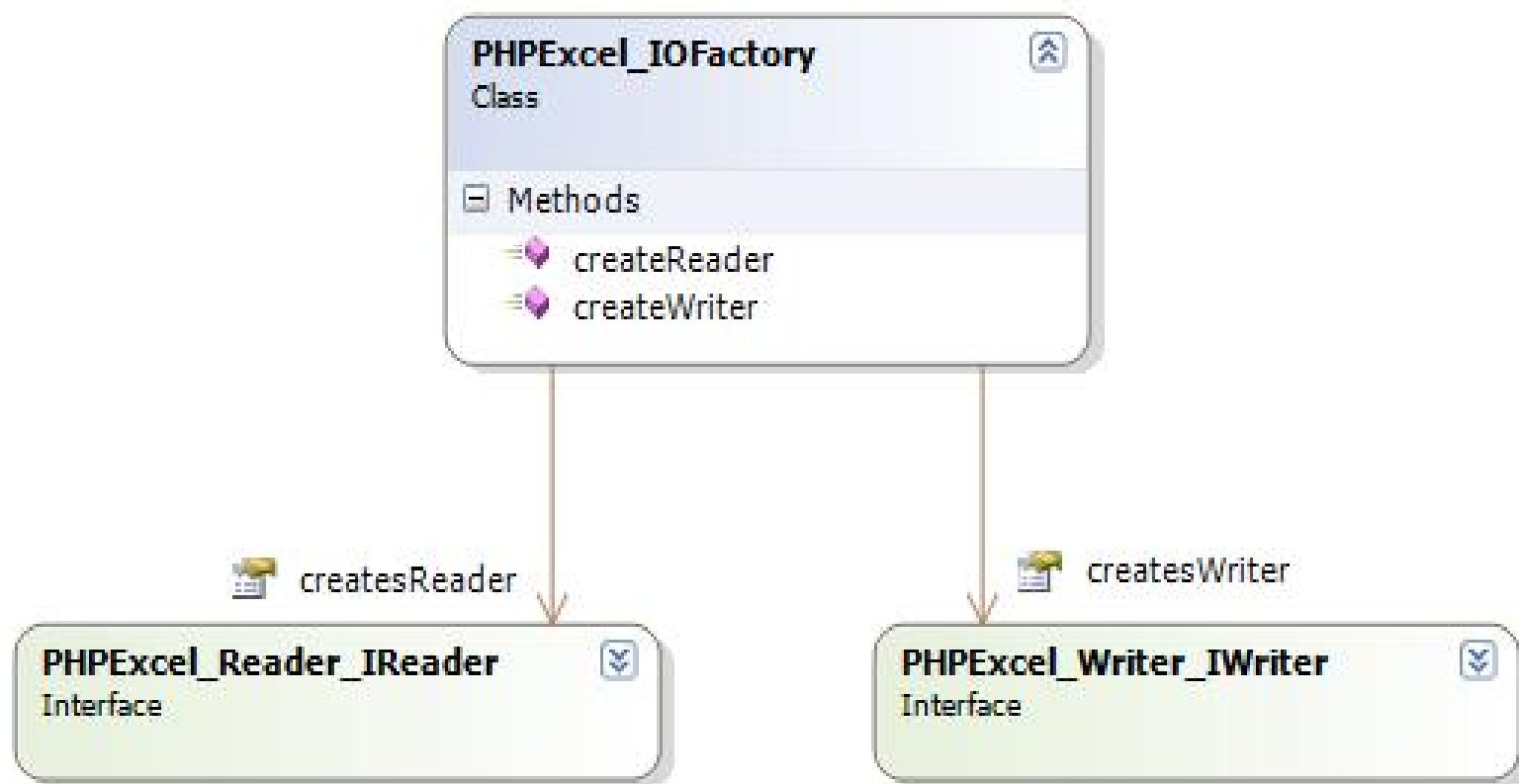


# PHPExcel



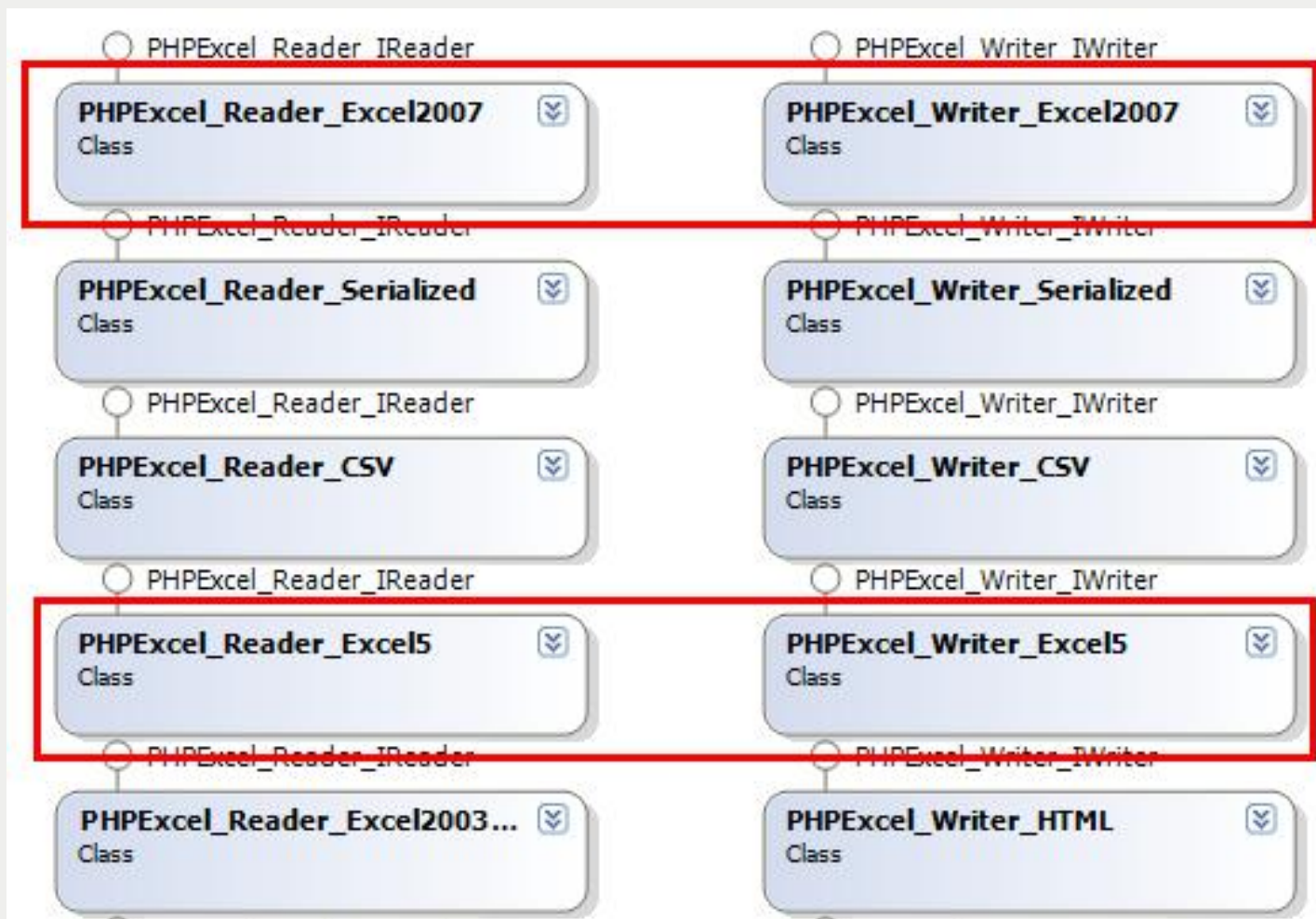


# Excel文件读写接口





# 读写接口的实现类





## 工作簿对象

包含文件

```
require './Classes/PHPExcel.php';
```

实例化新工作簿对象

```
$excel = new PHPEXcel();
```

根据文件加载工作簿对象

```
$excel = PHPEXcel_IOFactory::load('test.xls');
```





## 保存工作簿

通过工厂类，创建需要的写入器

```
$writer=PHPExcel_IOWriter::createWriter($objPHPExcel, 'Excel5');
```

支持: 'Excel2007', 'Excel5', 'HTML', 'CSV' ...

保存到文件

```
$writer->save('test.xls');
```



## 工作表对象

获取活动工作表

```
$sheet=$excel->getActiveSheet();
```

创建一个新工作表

```
$sheet=$excel->createSheet(0);
```

设置工作表的标题

```
$sheet->setTitle('标题');
```



# 单元格内容操作

设置单元格内容

```
$sheet->getCell('A1')->setValue('值');
```

获取单元格内容

```
$sheet->getCell('A1')->getValue();
```

以坐标方式获取(列从0开始, 行从1开始)

```
$sheet->getCellValueByColumnAndRow(0, 1);
```

以坐标方式设置单元格内容

```
$sheet->setCellValueByColumnAndRow(0, 1, '值');
```



# 样式设置

字体大小

```
$sheet->getStyle('A1')->getFont()->setSize(14);
```

```
$sheet->getStyle('A1')->getFont()->setName('黑体');
```

字体加粗

```
$sheet->getStyle('A1')->getFont()->setBold(true);
```

```
$sheet->getStyle('A1')->getFont()->
```

```
    setUnderline(PHPExcel_Style_Font::UNDERLINE_SINGLE); //下划线
```

文本颜色

```
$sheet->getStyle('A3')->getFont()->getColor()->setRGB('FF0000');
```

列宽

```
$sheet->getColumnDimension('A')->setWidth(20);
```

行高

```
$sheet->getRowDimension('4')->setRowHeight(40); //第四行
```



# 数字格式

指定数字格式: 千分位和小数位

```
$sheet->setCellValue(' E5' , 13880.2);
```

```
$sheet->getStyle(' E5' )->getNumberFormat() ->setFormatCode(' #, ##0.00' );
```

指定数字格式: 条件格式

```
$sheet->setCellValue(' E6' , 130);
```

```
$sheet->setCellValue(' E7' , 3000);
```

```
$sheet->getStyle(' E6: E7' )->getNumberFormat()
```

```
->setFormatCode(' [Blue][>=3000] ¥#, ##0; [Red][<0] ¥#, ##0; ¥#, ##0' );
```

指定数字格式: 前导0

```
$sheet->getCell(' E8' )->setValue(19);
```

```
$sheet->getStyle(' E8' )->getNumberFormat() ->setFormatCode(' 0000' ); //0019
```



# 对齐与行高

//文本对齐

```
$sheet->getCell('A10')->setValue('上对齐内容');  
$sheet->getCell('A11')->setValue('默认内容');  
$sheet->getRowDimension('10')->setRowHeight(30);
```

//设行高

```
$sheet->getRowDimension('11')->setRowHeight(30);  
$sheet->getStyle('A10')->getAlignment()  
    ->setVertical(PHPExcel_Style_Alignment::VERTICAL_TOP); //垂直顶部对齐  
//可选值查看 Alignment.php
```

//自动换行

```
$sheet->getRowDimension('13')->setRowHeight(30);  
$sheet->getStyle('A13')->getAlignment()->setWrapText(true);
```



# 单元格合并与保护

//合并单元格

```
$sheet->mergeCells("A4: E6");
```

//取消合并

```
$sheet->unmergeCells("A4: E6");
```

//保护cell

```
$sheet->getProtection()->setSheet(true);
```

```
$sheet->protectCells("A3: E5", "PHPExcel"); //A3: E5可编辑, 密码是PHPExcel
```

```
$sheet->getProtection()->setSheet(false); //解除保护
```





# 加入图片

为excel 加图片

```
$obj Drawing = new PHPExcel_Worksheet_Drawing();  
$obj Drawing->setName(' Photo' );  
$obj Drawing->setDescription(' Photo' );  
$obj Drawing->setPath(' ./test.jpg' );  
$obj Drawing->setHeight(358);  
$obj Drawing->setWidth(260);  
$obj Drawing->setCoordinates(' G2' );  
$obj Drawing->setWorksheet($excel->getActiveSheet());  
$obj Drawing->getShadow()->setVisible(true);  
$obj Drawing->getShadow()->setDirection(45);
```



# GD库生成图片

//生成一个图片

```
$gdImage = @imagecreatetruecolor(120, 20) or die(' 请检查是否支持GD库');
```

```
$textColor = imagecolorallocate($gdImage, 255, 255, 255);
```

```
imagestring($gdImage, 1, 5, 5, 'Image Test', $textColor);
```

//添加一个画板

```
$objDrawing = new PHPExcel_Worksheet_MemoryDrawing();
```

```
$objDrawing->setName(' 测试图片');
```

```
$objDrawing->setDescription(' 测试图片');
```

```
$objDrawing->setImageResource($gdImage);
```

```
$objDrawing
```

```
->setRenderingFunction(PHPExcel_Worksheet_MemoryDrawing::RENDERING_JPEG);
```

```
$objDrawing
```

```
->setMimeType(PHPExcel_Worksheet_MemoryDrawing::MIMETYPE_DEFAULT);
```

```
$objDrawing->setHeight(36);
```

```
$objDrawing->setWorksheet($sheet);
```



## 实例：生成简历

```
$excel=PHPExcel_I0Factory::load(' resume.xls');  
$sheet=$excel->getActiveSheet();  
$sheet->getCell(' C3')->setValue($userinfo[' name' ]);  
//临时文件  
$file=uniqid().'.xls';  
$show_name=' 简历.xls';  
$write=PHPExcel_I0Factory::createWriter($excel, ' Excel5');  
$write->save($file);  
    //弹出下载对话框    去手册中readfile()函数，复制下面这段即可  
header(' Content-Type: application/octet-stream');  
header(' Content-Disposition: attachment; filename='. $show_name);  
header(' Content-Length: ' . filesize($file));  
readfile($file);  
//删除临时文件  
unlink($file);
```



## 实例：导出数据

用好下面这个方法：

```
$sheet->setCellValueByColumnAndRow(0, 1, '值');
```



## 实例：数据导入

//取到有多少条记录

```
$rows=$sheet->getHighestRow();
```

//循环读取，因为第一行是列名，跳过

```
for ($i=2; $i <= $rows; $i++) {
```

    //获取信息

```
    $name=$sheet->getCellByColumnAndRow(0, $i)->getValue();
```

```
    $email=$sheet->getCellByColumnAndRow(2, $i)->getValue();
```

    //生成SQL的values部份

```
    $values["(' $name', ' $sex', ' $email', ' $address', $ctime) "];
```

```
}
```

//生成完整SQL

```
$sql="insert into stu (name, sex, email, address, ctime) values  
    ".implode(', ', $values);
```



# 缓存设置

//单元格缓存到PHP临时文件中

```
$cacheMethod = PHPExcel_CachedObjectStorageFactory::  
    cache_to_phpTemp; $cacheSettings = array( 'memoryCacheSize'  
        => '50MB' );  
PHPExcel_Settings::setCacheStorageMethod($cacheMethod,  
    $cacheSettings);
```

//单元格缓存到memcache中，需要先开启memcache服务

```
$cacheMethod =  
    PHPExcel_CachedObjectStorageFactory::cache_to_memcache;  
$cacheSettings = array( 'memcacheServer' => 'localhost',  
    'memcachePort' => 11211, 'cacheTime' => 600 );  
$result=PHPExcel_Settings::setCacheStorageMethod($cacheMethod,  
    $cacheSettings);
```



# 技术交流

新浪微博:

<http://weibo.com/it266>

@邹义良



# 谢谢

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