### [workbook](workbook.docx) (Workbook)

This element is the root part of the [workbook](workbook.docx) in SpreadsheetML. It defines the structure of the workbook:

* Sheets: represents the collection of worksheets in the workbook. The [worksheet](worksheet.docx) is the primary document that you use to store and work with data.
* Views: SpreadsheetML defines a collection of [Workbook](Workbook.docx) views that define basic window [dimensions](dimensions.docx) and position of the workbook. It also defines a collection of Custom [Workbook](Workbook.docx) Views that allow the end-user to define a series of rich views on their [workbook](workbook.docx) data. Users can create more than one view of the same [workbook](workbook.docx) without saving separate copies of the workbook.
* Properties: the [workbook](workbook.docx) has several property collection that store basic [workbook](workbook.docx) settings, such as the date system to use, file [protection](protection.docx) settings, calculation settings, and smart tag behaviors.
* Names: represent descriptive that represent cells, ranges of cells, formulas, or constant values.

[Example:

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>  
<[workbook](workbook.docx) xmlns="http://schemas.openxmlformats.org/spreadsheetml/2006/5/[main](main.docx)"   
mlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships">  
 <[fileVersion](fileVersion.docx) lastEdited="4" lowestEdited="4" rupBuild="4017"/>  
 <[workbookPr](workbookPr.docx) date1904="1" vbName="ThisWorkbook" defaultThemeVersion="123820"/>

<[bookViews](bookViews.docx)>  
 <[workbookView](workbookView.docx) xWindow="120" yWindow="45" windowWidth="15135"  
 windowHeight="7650" activeTab="4"/>  
 </[bookViews](bookViews.docx)>

<[sheets](sheets.docx)>  
 <[sheet](sheet.docx) name="Sheet1" [sheetId](sheetId.docx)="1" r:id="rId1"/>  
 <[sheet](sheet.docx) name="Sheet2" [sheetId](sheetId.docx)="2" r:id="rId2"/>  
 <[sheet](sheet.docx) name="Sheet5" [sheetId](sheetId.docx)="3" r:id="rId3"/>  
 <[sheet](sheet.docx) name="Chart1" [sheetId](sheetId.docx)="4" type="[chartsheet](chartsheet.docx)" r:id="rId4"/>  
 </[sheets](sheets.docx)>

<[definedNames](definedNames.docx)>  
 <[definedName](definedName.docx) name="MyDefinedName">Sheet3!$A$1:$C$12</[definedName](definedName.docx)>  
 </[definedNames](definedNames.docx)>

<[calcPr](calcPr.docx) calcId="122211" calcMode="autoNoTable" refMode="R1C1" iterate="1"  
 fullPrecision="0"/>

<[customWorkbookViews](customWorkbookViews.docx)>  
 <[customWorkbookView](customWorkbookView.docx) name="CustomView1"   
 guid="{CE6681F1-E999-414D-8446-68A031534B57}" maximized="1" xWindow="1"   
 yWindow="1" windowWidth="1024" windowHeight="547" activeSheetId="1"/>  
 </[customWorkbookViews](customWorkbookViews.docx)>

<[pivotCaches](pivotCaches.docx)>  
 <[pivotCache](pivotCache.docx) cacheId="0" r:id="rId8"/>  
 </[pivotCaches](pivotCaches.docx)>

<[smartTagPr](smartTagPr.docx) embed="1" show="noIndicator"/>

<[smartTagTypes](smartTagTypes.docx)>  
 <[smartTagType](smartTagType.docx) namespaceUri="urn:schemas-openxmlformats-org:office:smarttags"   
 name="date"/>  
 </[smartTagTypes](smartTagTypes.docx)>  
 <[webPublishing](webPublishing.docx) codePage="1252"/>  
</[workbook](workbook.docx)>

end example]

|  |
| --- |
| Parent Elements |
| Root element of SpreadsheetML [Workbook](Workbook.docx) part |

|  |  |
| --- | --- |
| Child Elements | Subclause |
| [bookViews](bookViews.docx) (Workbook Views) | § |
| [calcPr](calcPr.docx) (Calculation Properties) | § |
| [customWorkbookViews](customWorkbookViews.docx) (Custom [Workbook](Workbook.docx) Views) | § |
| [definedNames](definedNames.docx) (Defined Names) | § |
| [externalReferences](externalReferences.docx) (External References) | § |
| [extLst](extLst.docx) (Future Feature Data Storage Area) | § |
| [fileRecoveryPr](fileRecoveryPr.docx) (File Recovery Properties) | § |
| [fileSharing](fileSharing.docx) (File Sharing) | § |
| [fileVersion](fileVersion.docx) (File Version) | § |
| [functionGroups](functionGroups.docx) (Function Groups) | § |
| [oleSize](oleSize.docx) (Embedded Object Size) | § |
| [pivotCaches](pivotCaches.docx) (PivotCaches) | § |
| [sheets](sheets.docx) (Sheets) | § |
| [smartTagPr](smartTagPr.docx) (Smart Tag Properties) | § |
| [smartTagTypes](smartTagTypes.docx) (Smart Tag Types) | § |
| [webPublishing](webPublishing.docx) (Web Publishing Properties) | § |
| [webPublishObjects](webPublishObjects.docx) (Web Publish Objects) | § |
| [workbookPr](workbookPr.docx) (Workbook Properties) | § |
| [workbookProtection](workbookProtection.docx) (Workbook Protection) | § |

The following XML [Schema](Schema.docx) fragment defines the contents of this element:

<complexType [name](name.docx)="CT\_Workbook">

<sequence>

<element name="[fileVersion](fileVersion.docx)" type="CT\_FileVersion" minOccurs="0" maxOccurs="1"/>

<element name="[fileSharing](fileSharing.docx)" type="CT\_FileSharing" minOccurs="0" maxOccurs="1"/>

<element name="[workbookPr](workbookPr.docx)" type="CT\_WorkbookPr" minOccurs="0" maxOccurs="1"/>

<element name="[workbookProtection](workbookProtection.docx)" type="CT\_WorkbookProtection" minOccurs="0" maxOccurs="1"/>

<element name="[bookViews](bookViews.docx)" type="CT\_BookViews" minOccurs="0" maxOccurs="1"/>

<element name="[sheets](sheets.docx)" type="CT\_Sheets" minOccurs="1" maxOccurs="1"/>

<element name="[functionGroups](functionGroups.docx)" type="CT\_FunctionGroups" minOccurs="0" maxOccurs="1"/>

<element name="[externalReferences](externalReferences.docx)" type="CT\_ExternalReferences" minOccurs="0" maxOccurs="1"/>

<element name="[definedNames](definedNames.docx)" type="CT\_DefinedNames" minOccurs="0" maxOccurs="1"/>

<element name="[calcPr](calcPr.docx)" type="CT\_CalcPr" minOccurs="0" maxOccurs="1"/>

<element name="[oleSize](oleSize.docx)" type="CT\_OleSize" minOccurs="0" maxOccurs="1"/>

<element name="[customWorkbookViews](customWorkbookViews.docx)" type="CT\_CustomWorkbookViews" minOccurs="0" maxOccurs="1"/>

<element name="[pivotCaches](pivotCaches.docx)" type="CT\_PivotCaches" minOccurs="0" maxOccurs="1"/>

<element name="[smartTagPr](smartTagPr.docx)" type="CT\_SmartTagPr" minOccurs="0" maxOccurs="1"/>

<element name="[smartTagTypes](smartTagTypes.docx)" type="CT\_SmartTagTypes" minOccurs="0" maxOccurs="1"/>

<element name="[webPublishing](webPublishing.docx)" type="CT\_WebPublishing" minOccurs="0" maxOccurs="1"/>

<element name="[fileRecoveryPr](fileRecoveryPr.docx)" type="CT\_FileRecoveryPr" minOccurs="0" maxOccurs="unbounded"/>

<element name="[webPublishObjects](webPublishObjects.docx)" type="CT\_WebPublishObjects" minOccurs="0" maxOccurs="1"/>

<element name="[extLst](extLst.docx)" type="CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>

</sequence>

</complexType>