

## Class: DownloadItem

Control file downloads from remote sources.

Process: Main *This class is not exported from the 'electron' module. It is only available as a return value of other methods in the Electron API.*

DownloadItem is an EventEmitter that represents a download item in Electron. It is used in will-download event of Session class, and allows users to control the download item.

```
// In the main process.
const { BrowserWindow } = require('electron')
const win = new BrowserWindow()
win.webContents.session.on('will-download', (event, item, webContents) => {
  // Set the save path, making Electron not to prompt a save dialog.
  item.setSavePath('/tmp/save.pdf')

  item.on('updated', (event, state) => {
    if (state === 'interrupted') {
      console.log('Download is interrupted but can be resumed')
    } else if (state === 'progressing') {
      if (item.isPaused()) {
        console.log('Download is paused')
      } else {
        console.log(`Received bytes: ${item.getReceivedBytes()}`)
      }
    }
  })
  item.once('done', (event, state) => {
    if (state === 'completed') {
      console.log('Download successfully')
    } else {
      console.log(`Download failed: ${state}`)
    }
  })
})
})
```

### Instance Events

Event: 'updated' Returns:

- event Event
- state string - Can be progressing or interrupted.

Emitted when the download has been updated and is not done.

The state can be one of following:

- progressing - The download is in-progress.

- **interrupted** - The download has interrupted and can be resumed.

**Event: ‘done’** Returns:

- **event** Event
- **state** string - Can be **completed**, **cancelled** or **interrupted**.

Emitted when the download is in a terminal state. This includes a completed download, a cancelled download (via `downloadItem.cancel()`), and interrupted download that can't be resumed.

The **state** can be one of following:

- **completed** - The download completed successfully.
- **cancelled** - The download has been cancelled.
- **interrupted** - The download has interrupted and can not resume.

## Instance Methods

The `downloadItem` object has the following methods:

**`downloadItem.setSavePath(path)`**

- **path** string - Set the save file path of the download item.

The API is only available in session's **will-download** callback function. If **path** doesn't exist, Electron will try to make the directory recursively. If user doesn't set the save path via the API, Electron will use the original routine to determine the save path; this usually prompts a save dialog.

**`downloadItem.getSavePath()`** Returns **string** - The save path of the download item. This will be either the path set via `downloadItem.setSavePath(path)` or the path selected from the shown save dialog.

**`downloadItem.setSaveDialogOptions(options)`**

- **options** `SaveDialogOptions` - Set the save file dialog options. This object has the same properties as the **options** parameter of `dialog.showSaveDialog()`.

This API allows the user to set custom options for the save dialog that opens for the download item by default. The API is only available in session's **will-download** callback function.

**`downloadItem.getSaveDialogOptions()`** Returns `SaveDialogOptions` - Returns the object previously set by `downloadItem.setSaveDialogOptions(options)`.

**`downloadItem.pause()`** Pauses the download.

**downloadItem.isPaused()** Returns **boolean** - Whether the download is paused.

**downloadItem.resume()** Resumes the download that has been paused.

**Note:** To enable resumable downloads the server you are downloading from must support range requests and provide both **Last-Modified** and **ETag** header values. Otherwise **resume()** will dismiss previously received bytes and restart the download from the beginning.

**downloadItem.canResume()** Returns **boolean** - Whether the download can resume.

**downloadItem.cancel()** Cancels the download operation.

**downloadItem.getURL()** Returns **string** - The origin URL where the item is downloaded from.

**downloadItem.getMimeType()** Returns **string** - The files mime type.

**downloadItem.hasUserGesture()** Returns **boolean** - Whether the download has user gesture.

**downloadItem.getFilename()** Returns **string** - The file name of the download item.

**Note:** The file name is not always the same as the actual one saved in local disk. If user changes the file name in a prompted download saving dialog, the actual name of saved file will be different.

**downloadItem.getTotalBytes()** Returns **Integer** - The total size in bytes of the download item.

If the size is unknown, it returns 0.

**downloadItem.getReceivedBytes()** Returns **Integer** - The received bytes of the download item.

**downloadItem.getContentDisposition()** Returns **string** - The Content-Disposition field from the response header.

**downloadItem.getState()** Returns **string** - The current state. Can be progressing, completed, cancelled or interrupted.

**Note:** The following methods are useful specifically to resume a cancelled item when session is restarted.

**downloadItem.getURLChain()** Returns **string[]** - The complete URL chain of the item including any redirects.

**downloadItem.getLastModifiedTime()** Returns **string** - Last-Modified header value.

**downloadItem.getETag()** Returns **string** - ETag header value.

**downloadItem.getStartTime()** Returns **Double** - Number of seconds since the UNIX epoch when the download was started.

### Instance Properties

**downloadItem.savePath** A **string** property that determines the save file path of the download item.

The property is only available in session's **will-download** callback function. If user doesn't set the save path via the property, Electron will use the original routine to determine the save path; this usually prompts a save dialog.