

Download Instructions

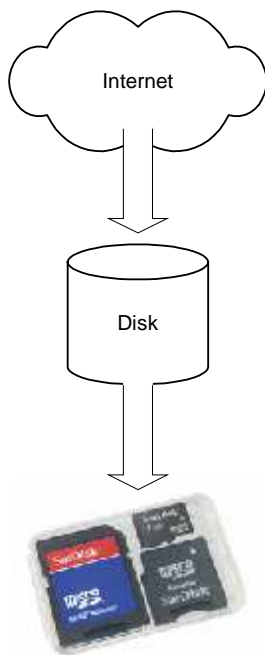
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1. Overview

An advantage of smartphone field guide applications is that they are easier to update than paperback field guides, and that becomes more important as changes become more frequent. In the 47-th supplement to the American Ornithologists' Union (AOU) checklist published in July 2006, the AOU wrote

“Changes of classification of entire genera, tribes, subfamilies, and even families will become more frequent as DNA evidence continues to provide new or confirm old concepts of relationships.”



The typical path for downloaded Tangled multimedia starts at Internet servers, follows a download to a

computer's hard disk drive (e.g., C:\My Downloads), and finally a copy to an SD card (e.g., G:\), where it is accessed by the Tangled application. This document is primarily about the downloading of Tangled multimedia to your computer's hard disk drive. For documentation about copying to your SD card, see the 'Copy Instructions' at http://eduneer.com/tangled/copy_instructions.pdf

2. Tangled Multimedia Download

The Tangled multimedia is encrypted according to the unique ID of your SD card.¹ Although you can purchase the multimedia on an SD card, the recommendation is to download it. Not only is downloading cheaper and faster, it also prepares you for update maintenance. To download the multimedia, use an FTP (File Transfer Protocol) client application, such as the open source FileZilla **client** application² (not to be confused with the open source FileZilla **server** application) for Windows or Fetch for Mac OS X³. Although using an FTP client application is not as simple as using a Web browser, it is certainly within the technical grasp of people interested in field guides. Downloading is the recommended delivery even for users with dial-up Internet connection: although downloading over a dial-up connection will take many hours, the FTP client application can run unattended, you can run it just during the night, and that is still faster than USPS delivery of an SD card. If you encounter a problem, you can get

¹ For instructions on how to determine the ID of your SD card, see http://www.eduneer.com/tangled/determine_SD_ID.pdf

² The FileZilla client application is available for download at <http://sourceforge.net/projects/filezilla/>

³ The Fetch FTP client application is available for download at <http://fetchsoftworks.com/>

support from the Tangled users group.⁴ If you are uncertain about learning to use an FTP client application or you don't want to get a SD card reader/writer, you can order the multimedia on an SD card and it will be sent by mail.

After you have installed an FTP client application

- 1) **Buy** the Tangled multimedia download at Google Checkout by following the "Tangled multimedia" link at <http://eduneer.com>.
- 2) **Complete your order.** Within a couple minutes after you submit your order, you should receive an order confirmation email from Google. To complete your order, submit the on-line form at <http://eduneer.com/ssl/form/gb.html> which consists of two fields: one for the Google order number (given in the order confirmation email) and the other for your SD card's ID (obtained by following the instructions at http://eduneer.com/tangled/determine_SD_ID.pdf).
- 3) **Download.** Typically within one business day after you submit your order, you should receive FTP download instructions from eduneer.com in an email similar to the following, except with the actual user name and password:

This is a script generated message describing how to download the Tangled multimedia. The instructions in parentheses are specific to the FileZilla FTP client application.

Download instructions:

- (start the FileZilla application)
- (select the 'File/Site Manager' menu item)
- (click on the 'New Site' button)
- set host to `ftp.eduneer.com`
- set servertype to FTP
- set logontype to normal
- set user to `<your username>@eduneer.com`
- set password to `<your password>`
- (click on the 'Connect' button)

At the remote site, there should be a

```
'/order/out/VA/<your SD card ID>'
```

subdirectory, named according to your Secure Digital card's ID.

Enter that subdirectory and you should see the 'tangled' subdirectory. (Setup the FileZilla transfer by checking the 'Transfer/Transfer Type/Binary' menu item. Select your download destination in 'Local site' (e.g., C:\My Downloads). If you already have a copy of the tangled multimedia and you are wanting to do a differential update in which only the changed multimedia files are downloaded, then select the 'Transfer/ Default file exists action' menu item and select 'Skip' in the 'Downloads' column. Finally to start the download, right click the 'tangled' subdirectory and select the 'download' menu item.)

Please perform your download as soon as possible. After a couple weeks, your download directory on the FTP server will be deleted.

If you encounter problems logging onto the FTP server (e.g., password does not work), please report them by replying to this message.

Best regards,
Greg

- 4) **Verify download directory.** Before the download instructions are emailed to you, the server script verifies the number and sizes of all the files in your created multimedia download directory. After you download the directory, you should again check the total number and size of files. For example, in the FileZilla client application, you can use the 'Local site' and 'Remote site' status bars to compare the total number and size of files in the audio and photo directories on the server with the downloaded audio and photo directories. They should match exactly. If the total number and size of files don't match, it is possible that there was a brief connection problem during the lengthy download. With FileZilla, you can recover the lost information by selecting the "Transfer/Default file exists action/Downloads/Overwrite if different size" menu item, and restarting the download of the /tangled directory. FileZilla will re-download only those files necessary to correct the differences between the server files and your downloaded files.

⁴ The Tangled field guide users' group is at <http://groups.google.com/group/tfgu/>

5) **Copy download directory to your SD card.**

One way to copy the download directory to your SD card is to 'drag and drop' the /tangled directory from your computer's hard disk drive to the drive of your SD card. For more details about copying to SD cards, see the copy instructions at www.eduneer.com/tangled/copy_instructions.pdf

3. Tangled Multimedia Differential Download

A new version of the Tangled multimedia is released about every year. Typically, only a small portion of the multimedia files change. According to the Tangled multimedia file naming conventions, any changed multimedia file is given a new filename. Therefore, it is rather redundant to re-download all of the multimedia files when only the new files are needed. Fortunately, the FileZilla client application can do that (and many other neat tricks). As described in the emailed download instructions, select the 'Transfer/Default file exists action' menu item and select 'Skip' in the 'Downloads' column.

In the case where some old multimedia files are removed from the new release, the FileZilla client application will not automatically remove them from your download destination directory. Instead, the removal of remnant multimedia files is handled by the copy operation. See the copy instructions at http://eduneer.com/tangled/copy_instructions.pdf