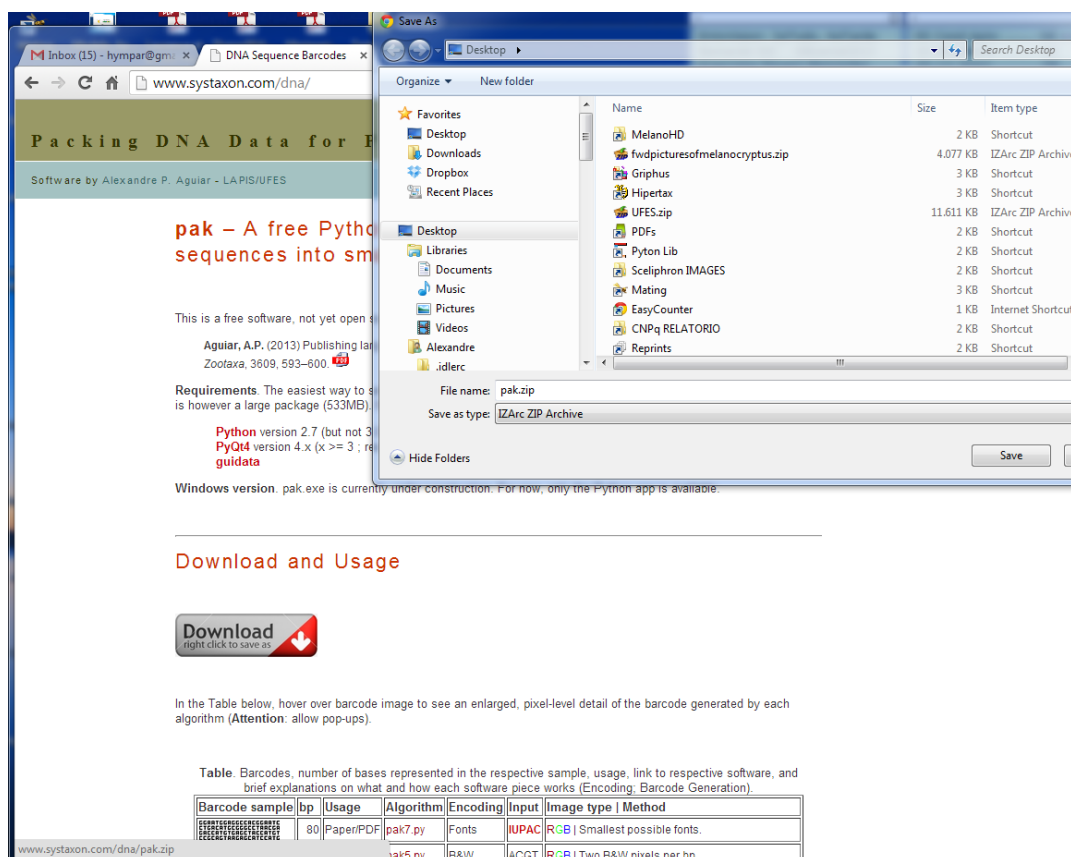


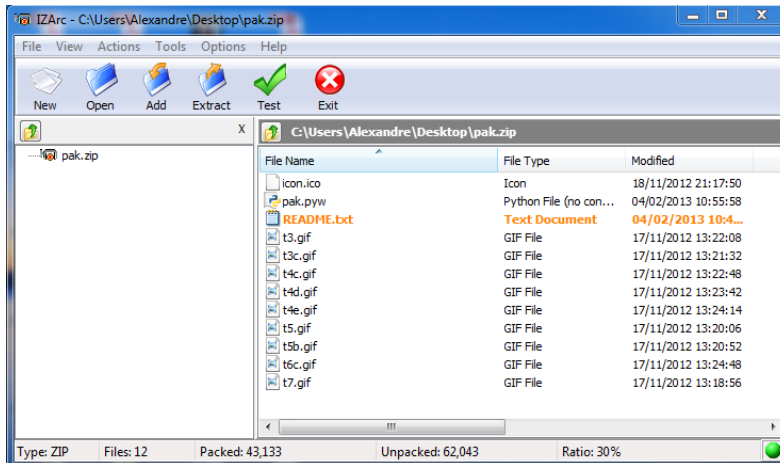
# Instructions for downloading, installing, and using *pak* under Windows 7

- To run the software, you need Pythonxy: [download the executable](#) [553 MB] and double-click on it to install the package in your computer
- After you get Pythonxy installed, go to <http://www.systaxon.ufes.br/dna>
- Click the download button. A download window should appear:

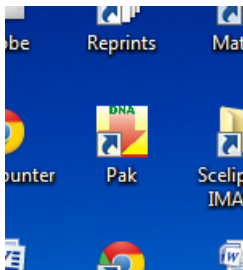


- Click Save
- Open the **pak.zip** file you just saved – you will need a program to unzip it, such as izarc (<http://www.izarc.org/>) or any other of your preference

- The contents of the zip file should be the following:

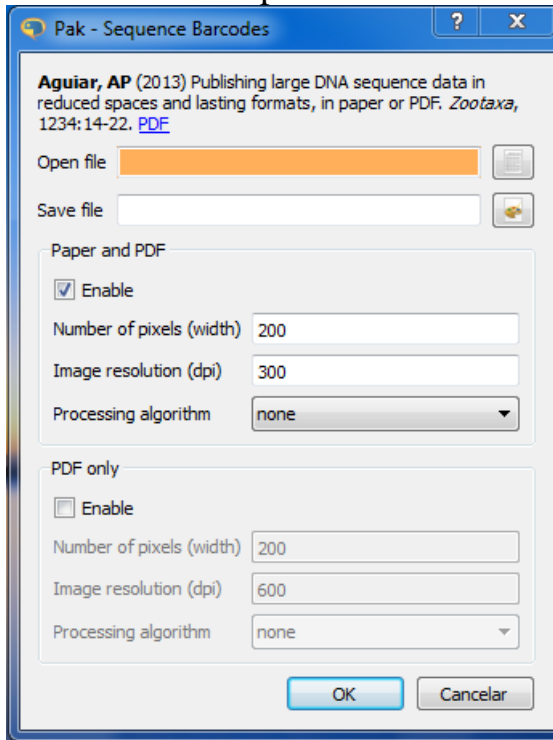


- Extract all files and place all of them in a folder you must create exclusively for them, for example in the folder C:\Pak
- The GIF files are images needed by the program
- The icon.ico file is just an icon
- Follow the README.txt instructions if you want to install an icon for pak on your desktop. It looks like this:

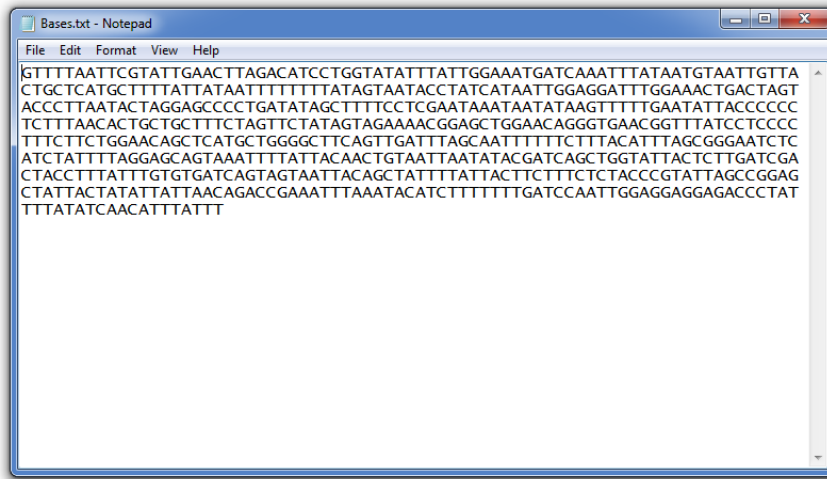


- The pak.pyw file is the software you need

- To start the program, simply double-click the **pak.pyw** file, and the following window should open:

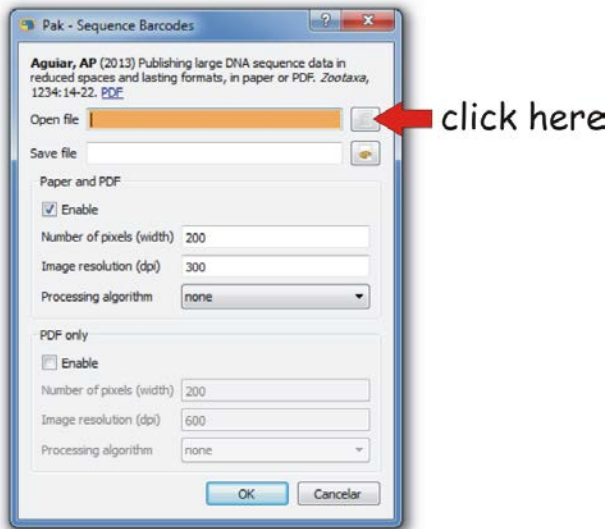


- Your base pairs sequence must be in a text file, such as the one in the example below, which is a simple Notepad file:



- FASTA files are also accepted

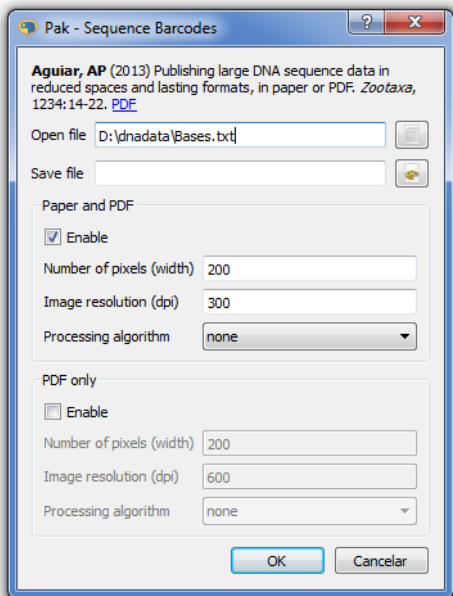
- Load the file with your base pairs into pak: to do this, first click on the upper left button on the pak window...



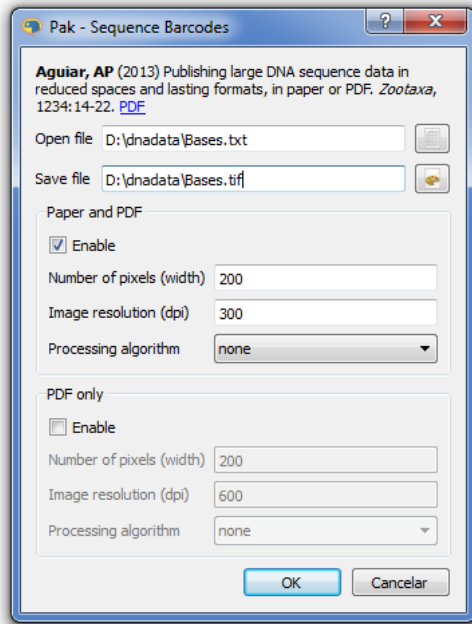
- ... a window will open, so you can navigate to choose the \*.txt or the \*.fas file you want

*or*

- *Optionally*, you may simply provide the full path of the file in the respective field, for example, for the file Bases.txt at the D:\dnadata directory:



- You need also to provide the full path with the name of the TIFF image you want, for example:



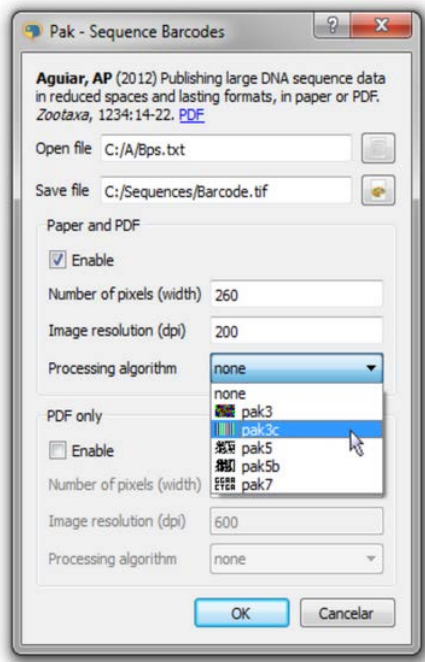
- If you want an image with compressed DNA data to be used in both printed matter and PDFs, leave the Enable option ticked in the “Paper and PDF” section
- If you want an image to be used in PDFs only, *unselect* the option above, and then *select* the Enable option for the section “PDF only”
  - **WARNING:** if both “Enable” squares are selected the program will not run properly
- The width of the image which will be generated must be indicated by typing the desired number of pixels in the following field:

Number of pixels (width)

- The image resolution, in dpi, must be indicated by typing the desired value in the following field:

Image resolution (dpi)

- Select which compression style you want, from the drop-down menu:



- Click OK – the program will run
- Your image file will be automatically opened (*usually* with the Windows Photo Viewer) when done
- Your image file (a TIFF file) is saved in the directory you indicated

**Remember:** you must always use the TIF format without compression, otherwise all the information will be lost and the base pairs in the image will be unreadable!

\* \* \*