# FastQ.gz files Management

Pierre Lecocq Service de Génétique CHU Liège March 4, 2016

### Overview

Perl Code (location on computer does not matter).
e.g.
Current version: FetchFastQgz\_v1i1.pl (version 1, issue 1)
Windows Platform version. Tested on Win7 64b and Win10 64b
1. Perl installed (tested on version 5.22 for Windows 64)

1. Perl installed (tested on version 5.22 for Windows 64)Page 32. 7-Zip installed (command line version)Page 42. Some Perl Modules installed (command line)Pages 5-63. Run (command line)Pages 7-8

## **Perl Installation**



## **7-Zip Installation**

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#### **Perl Modules Installation**

#### From Command line.



#### **Perl Modules Installation**



From any location on drive just type in:

« cpan install < module name>

e.g. cpan install Win32::DriveInfo

Wait until the installation completes Remark: from times to times you may be asked to answer a question.

Some Modules may take several minutes.

Modules used by FetchFastQgz\_v1i1.pl:

- Modern::Perl
- Smart::Comments
- Getopt::Euclid
- File::Basename
- File::Copy
- File::Compare
- File::Find
- Win32::DriveInfo

# Running FetchFastQgz\_v1i1.pl from command line (1/4)

First of all: Create a Folder on the computer and place the Perl code in it.

e.g. C:\GeneticsCHU\FetchFastQgz

Remark: The code will work whatever the location but it's best pratice to have in a dedicated environment. ALSO if you do not have the code anymore download it from:

http://ngyx.eu/support/various%20support%20files.html

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# Running FetchFastQgz\_v1i1.pl from command line (2/4)

#### The Perl code FetchFastQgz\_v1i1.pl runs from command line. Here is an example:

For Info. Archiving FastQ.gz files will leave 80.2% free space means 3208.7 Gb on target drive F. Died at FetchFastQgz\_v1i1.pl line 366.

```
C:\GeneticsCHU\FetchFastQgz\backup>perl FetchFastQgz_v1i1.pl --inputfolder C:\GeneticsCHU\FetchFastQgz\TestInputFastQ\*
--outputfolder C:\GeneticsCHU\FetchFastQgz\TestOutputFastQ2 --sevenzip "c:\Program Files\7-Zip" --overwrite Yes
ivingfolder F:\Testfastgz
```

Welcome to FetchFastQgz\_v1i1.pl.

```
### 7-zip executable availabe from: 'C:\\PROGRAM FILES\\7-ZIP'
### Overwriting set to (can be modified later on): 'YES'
### Output folder identified as: 'C:\\GeneticsCHU\\FetchFastQgz\\TestOutputFastQ2'
Starting from now the run follow-up is recorded in the REPORT file:
        C:\GeneticsCHU\FetchFastQgz\TestOutputFastQ2\FASTQREPORT.TXT
Identified 5 FastQ.gz file(s) (duplicate(s) removed = 0)
For Info. Decompressing FastQ.gz files will leave 84.2% free space
means 421.5 Gb on target drive C.
For Info. Archiving FastQ.gz files will leave 80.2% free space
means 3208.7 Gb on target drive F.
7-Zip [64] 15.14 : Copyright (c) 1999-2015 Igor Pavlov : 2015-12-31
```

First this example suppose that you are in the folder where the code is located. To reach this folder from command line use:

c: or d: or ... to select the drivecd subfoldername to move down one levelcd .. To move up one level

# Running FetchFastQgz\_v1i1.pl from command line (3/4)

Let's review this command line run.

- 1. C:\GeneticsCHU\FetchFastQgz\backup>
- 2. perl FetchFastQgz\_v1i1.pl
- 3. --inputfolder C:\GeneticsCHU\FetchFastQgz\TestInputFastQ\\*
- 4. --outputfolder C:\GeneticsCHU\FetchFastQgz\TestOutputFastQ2
- 5. --sevenzip "c:\Program Files\7-Zip"
- 6. --overwrite Yes
- 7. --gzarchivingfolder F:\Testfastgz

#### **Explanations:**

- 1. Location (where you are) on the drive
- 2. Means run code using perl code
- 3. Location to start searching recursively for all Fastq.gz files (you can use wildcard \*)
- 4. Location where to record decompressed FastQ files
- 5. Location of the 7-Zip executable (see previous slides)
- 6. Option to overwrite(yes) or not (no) if found FastQ already decompressed at location (default is: Do not overwrite)
- 7. Optional Location where to archive source FastQ.gz files (default is: Do not archive)

## Running FetchFastQgz\_v1i1.pl from command line (4/4)

Important.

All the output folders shuld exist prior the run.

At the begining of the run you will probably be asked to answer some questions. E.g. confirm overwriting or continuing process once drives may not have sufficient space to store files.

Also once you see that extraction start for a first file, you can leave it working alone. Nothing should happen, until the run complete.

For Info on a Icore7 2700/3500 16Gb DDR4 RAM 7200 RPM Internal and External drive a 200 Mb FastQ.Gz is fully processed (decompressed and archived) in about 20 seconds.

Finally: In the FastQ file output folder you will find REPORT and DATA TxT tab delimited files. The first one collect behavior of runs (successive if so) and the second gives an update lkist of FastQ files.

Last remark: We have not implemented a function to erase at end of process the source FastQ.gz files. It is up to user to check that everything went correctly and then to decide to erase these files to free space on the source drive.