

what you will produce

## Installation

To install Circos you will need to download several packages:

1. *Strawberry Perl* - a command line editor which runs Circos
2. *Perl Modules* - add-ons to Strawberry Perl required by Circos
3. *Circos* - the program itself

As a first step you should set up a folder which will contain all of your Circos-related downloads and files.

The installation process should take between 1 and 2 hours.

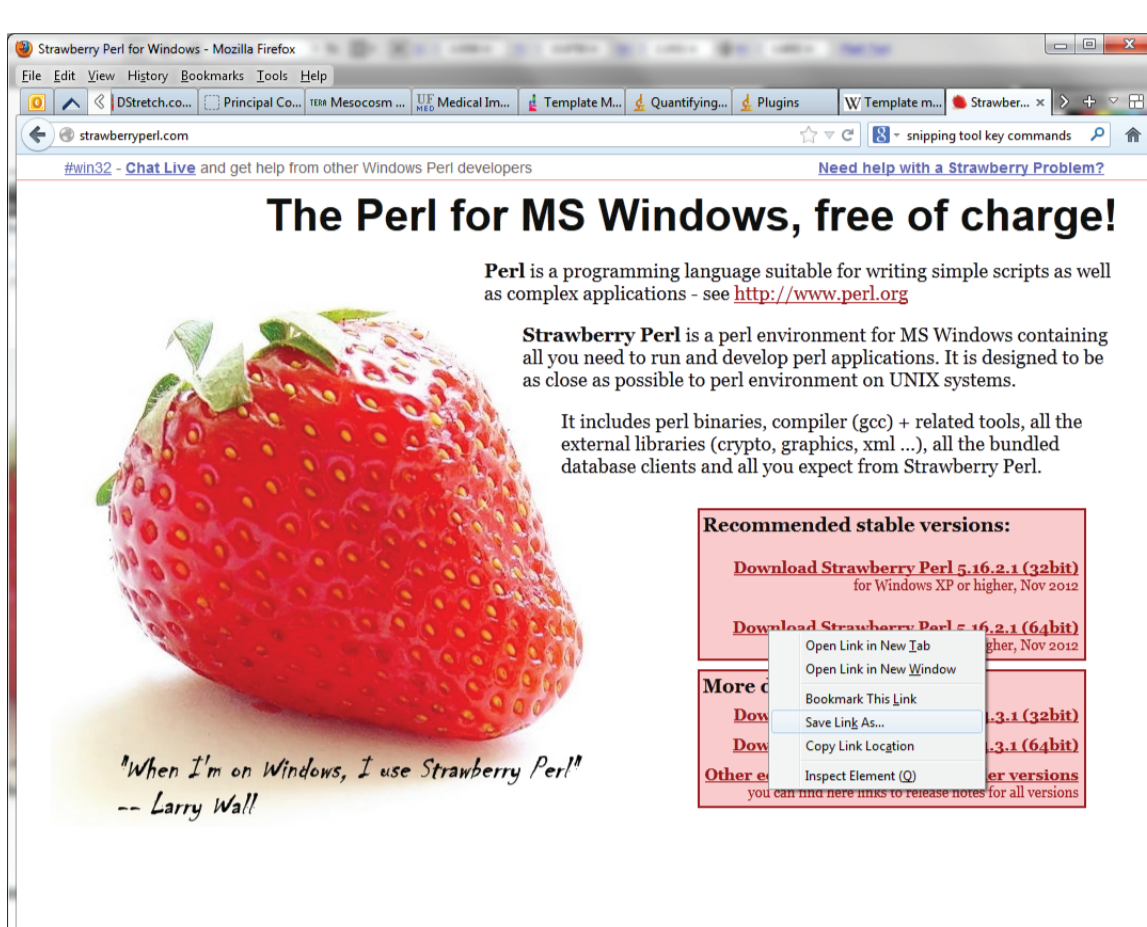
### 1. Strawberry Perl

Download from:

<http://strawberryperl.com/>

Download the following version by right clicking and selecting "Save Link As": *strawberry-perl-5.16.2.1-64bit*

Save the file to your Circos folder. Once downloaded, double click to install the file.



### 2. Perl Modules

Create a "Perl Modules" folder within your main Circos folder.

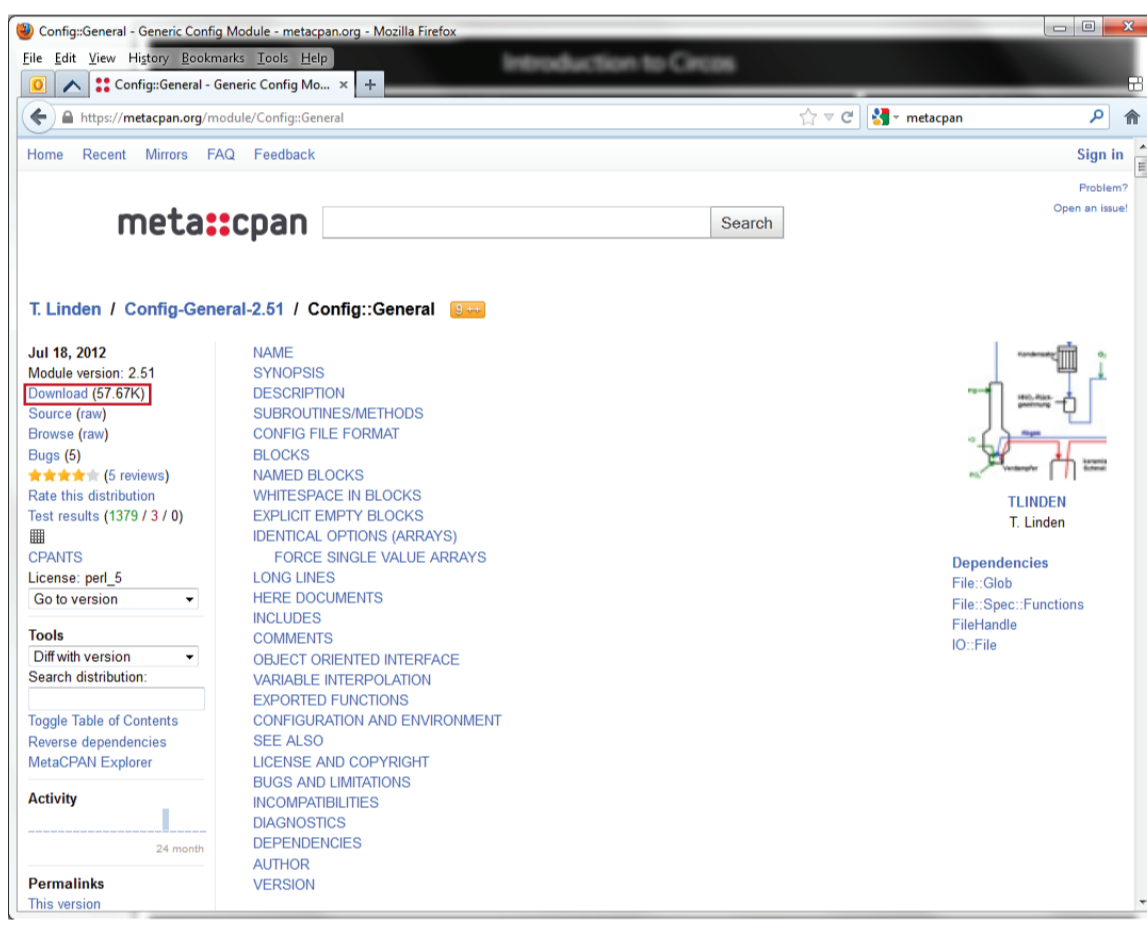
Find these at:

<https://metacpan.org/>

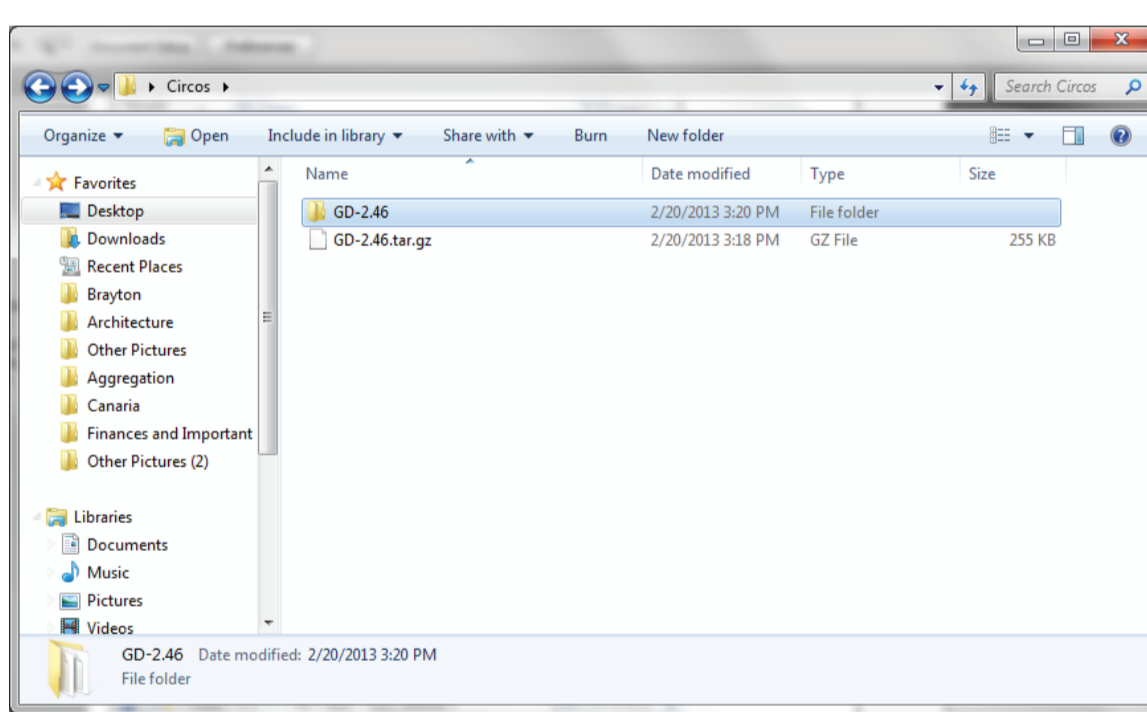
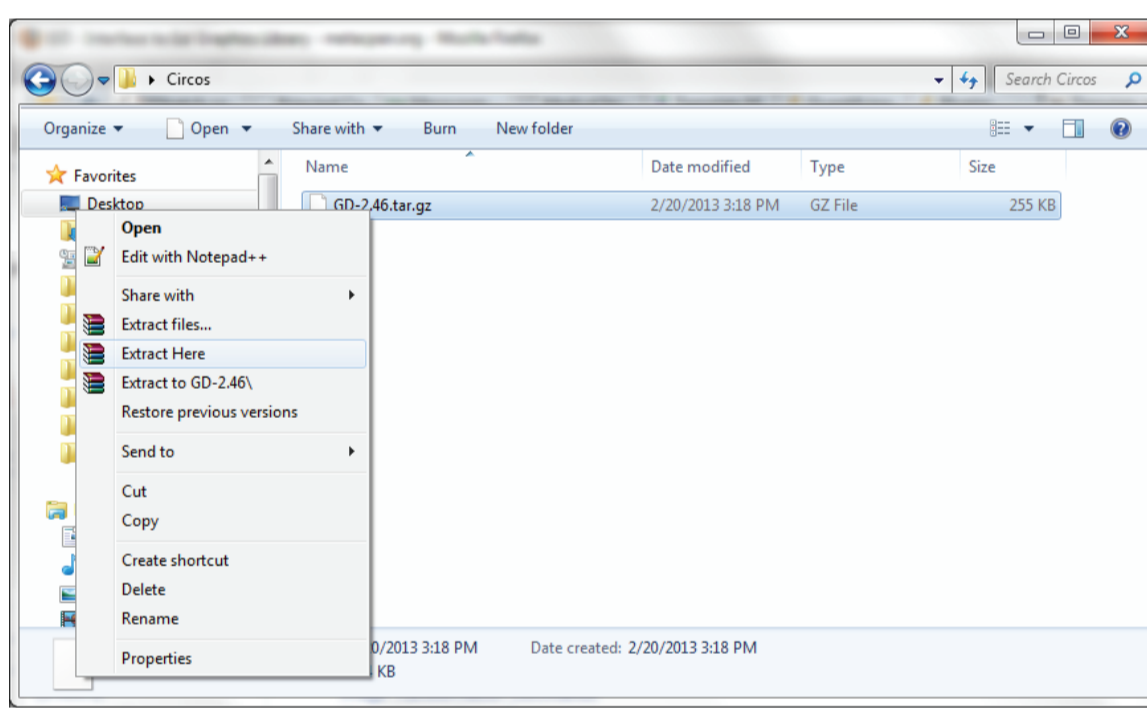
Search the module name and download each module from the following list:

*Config::General (v2.50 or later)*  
*GD*  
*List::MoreUtils*  
*Math::Bezier*  
*Math::Round*  
*Math::VecStat*  
*Params::Validate*  
*Readonly*  
*Regexp::Common*  
*Set::IntSpan (v1.16 or later)*  
*Text::Format*  
*Font::TTF*

Right click the "Download" icon, select "Save Link As", and save to your Perl Modules folder.



You must extract the modules from the .gz file by right clicking, and selecting "Extract Here". You may have to do this twice for each file, until you see the folder with the module name appear.

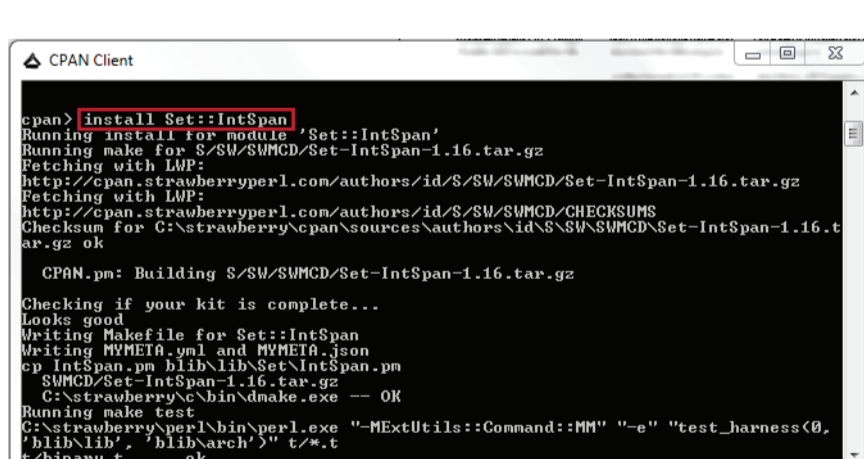


Once Perl is installed and modules are downloaded and extracted, go to:

Start Menu, All Programs, Strawberry Perl, Tools

and open CPan Client. This is the built-in installer for Perl Modules.

Type "install Module::Name" to install each module. (note that entries are case sensitive)  
 Ex: install Set::IntSpan



### 3. Circos

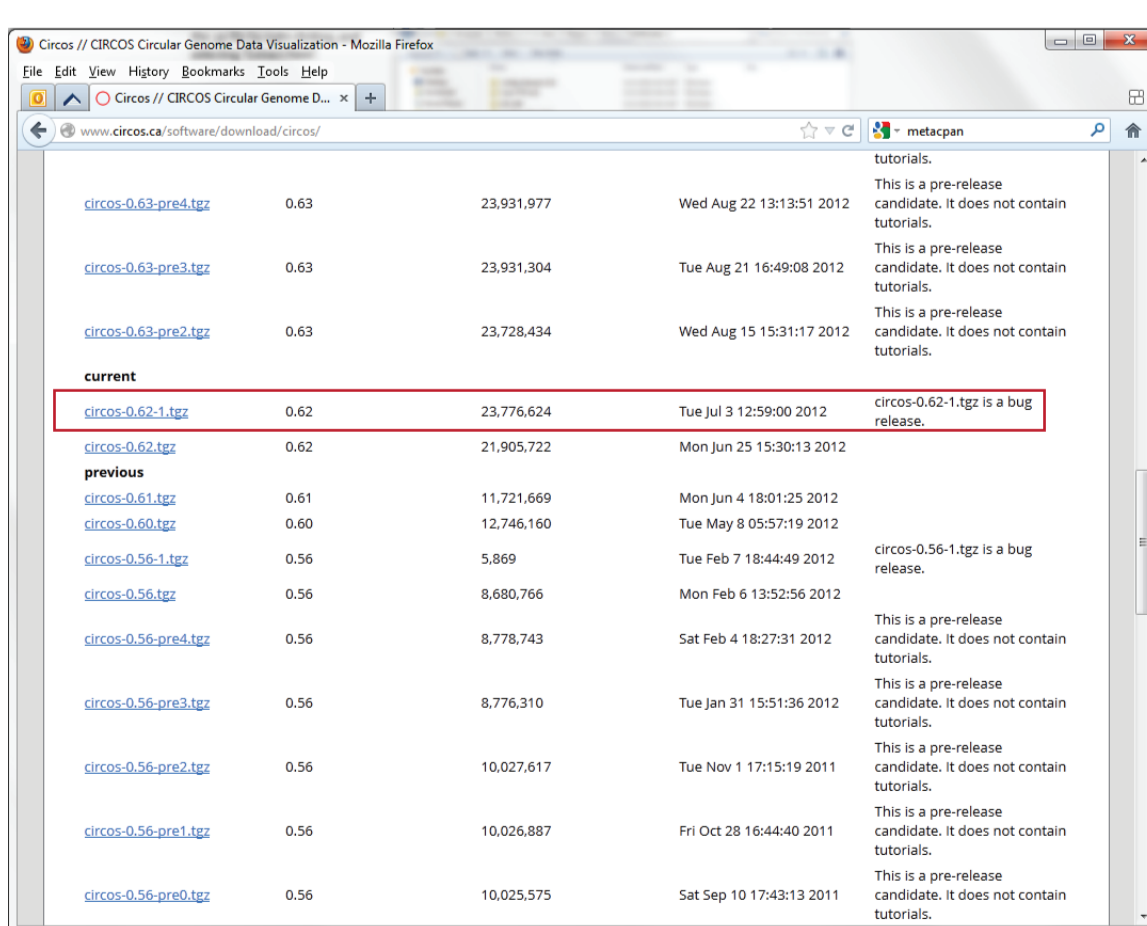
Download from:

<http://www.circos.ca/software/download/circos/>

Download the latest current version by right clicking and selecting "Save Link As": *circos-0.62-1.tgz*

Save to your main Circos folder.

After download, right click on the .tgz file and "Extract Here" to open the Circos program folder. Circos is now installed.



### 4. Run Circos

1. Go to:

Start Menu, type 'Perl' into the search box, and click on "Perl (command line)".  
 2. Type "cd" (change directory), and then the path of your circos folder.

3. To run a configuration file, type:  
 perl .\bin\circos -conf .\bin\tx1.conf

single space

"perl" initiates the perl program  
 "." is shorthand for your current directory  
 "\bin\circos" tells perl to run the Circos program  
 "-conf" tells perl to run a configuration file

If the image is successfully plotted, a .png and .svg will appear in the circos-0.62-1 folder. You can change this output path. See this link for further explanation:

[http://www.circos.ca/documentation/tutorials/configuration/runtime\\_parameters/](http://www.circos.ca/documentation/tutorials/configuration/runtime_parameters/)

