Making imzML from various type of files

"msconvert" and "imzMLConvereter"
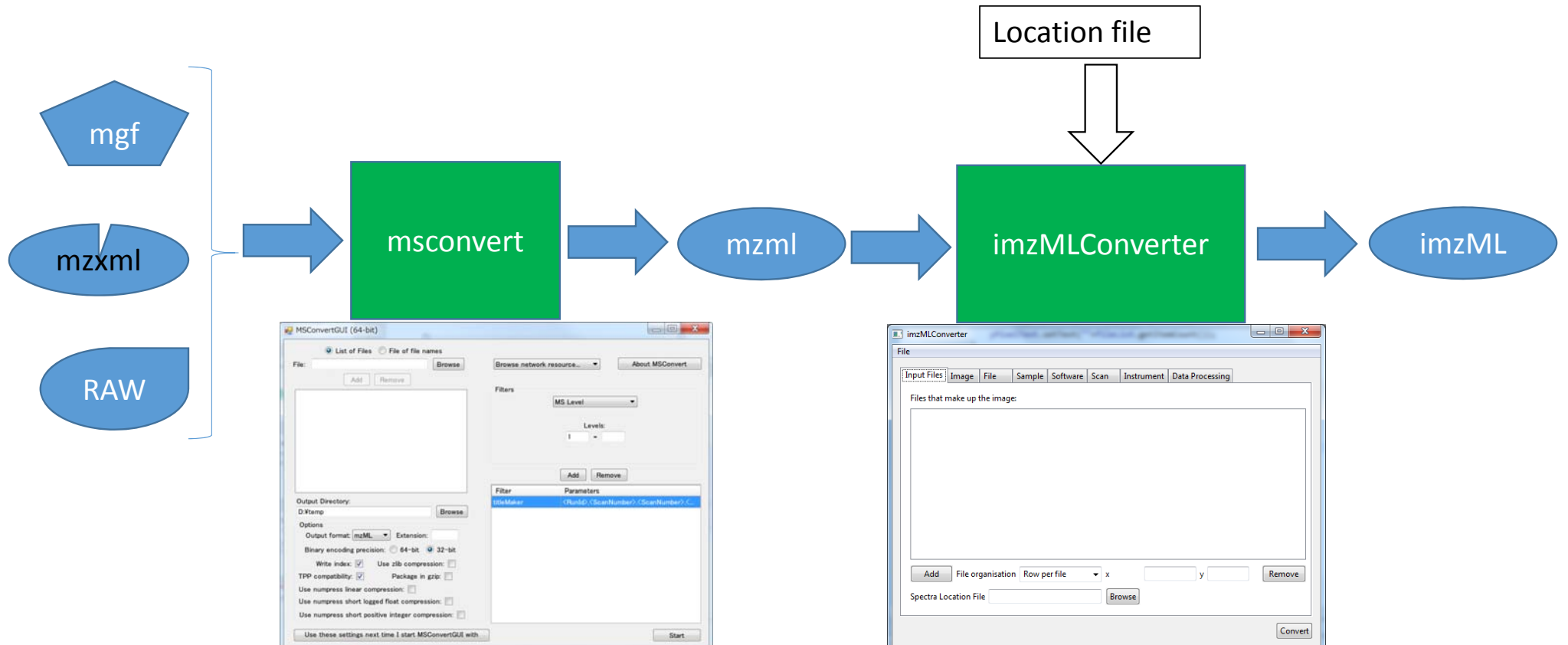
- **msconvert**
  - Included in "Proteowizard"
    - http://proteowizard.sourceforge.net/downloads.shtml
  - Msconvert can convert between various type formats

- **imzMLConverter**
  - **https://www.cs.bham.ac.uk/~ibs/imzMLConverter/**

Data conversion flow

In the case of "**mzml**" files,

- You don't have to use **msconvert.**
- See   **https://www.cs.bham.ac.uk/~ibs/imzMLConverter/#howto**

In the case of Text files→change to .mgf

m/z values and intensities are recorded as a text file.

100 11.11

101 20.12

102 252.22

Mascot generic format (mgf) is a text file. **Msconvert** needs

- "BEGIN IONS" at beginning of the data
- "END IONS" at END of the data

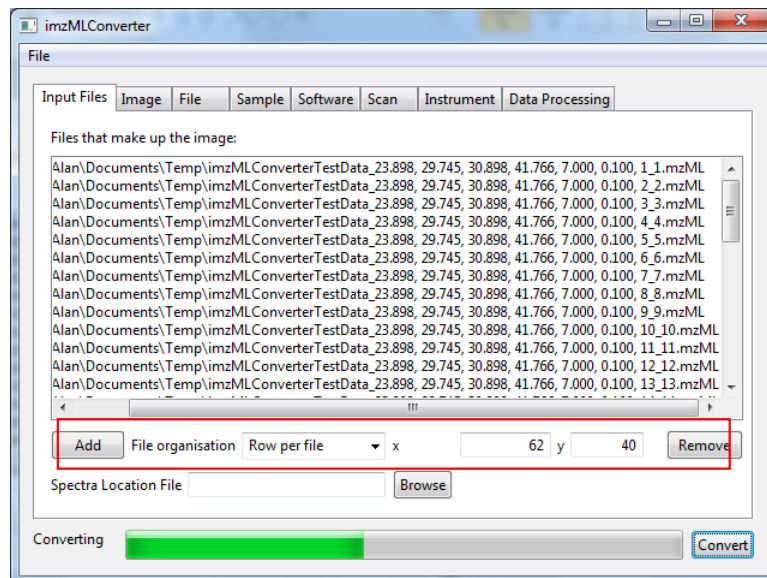So , you need to rewrite the text file to

BEGIN IONS

100 11.11

101 20.12

102 252.22

END IONS

How to specify the location

- If the shape of the image is rectangle, it is very easy.
- Specify the number of x and y on **imzMLConverter**
  - See **https://www.cs.bham.ac.uk/~ibs/imzMLConverter/**

How to specify the each location (x, y)

- You can specify the (x, y) for each spectrum with "location file" on **imzMLConverter**

- Location file is a text file that indicates x,y (and z)

- See **https://www.cs.bham.ac.uk/~ibs/imzMLConverter/**

```
1 1 1
2 1 1
3 1 1
1 2 1
2 2 1
3 2 1
```