

Making imzML from various  
type of files

# “msconvert” and “imzMLConverter”

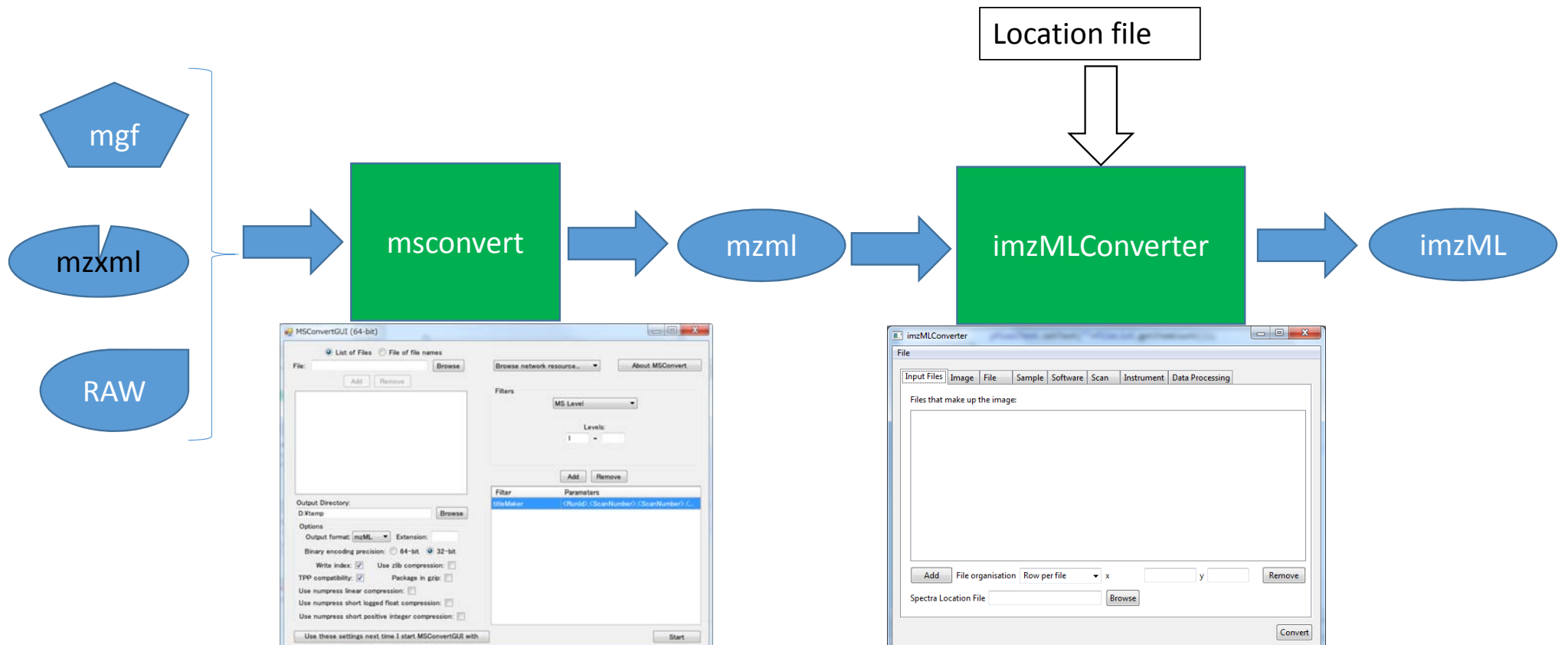
- **msconvert**

- 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

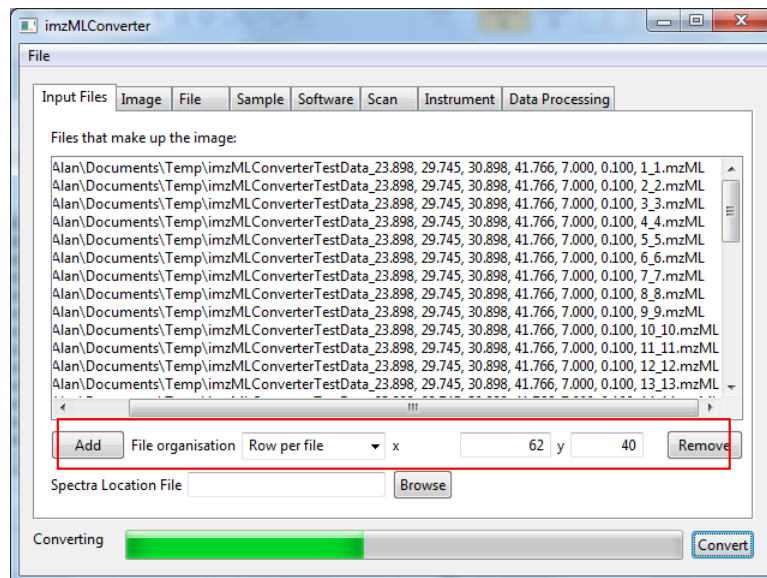
101 20.12

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