<table>
<tr><td>Fig</td><td>**A01**</td></tr>
<tr><td colspan="2">Chord types to be
used this year</td></tr>
</table>

Simple chords (6)

```
M, m, aug, dim, sus2, sus4
```

Extended chords (31)

```
7, M7, m7, aug7, dim7, ø7, M7sus2, M7sus4, 7sus2, 7sus4
9, M9, m9, aug9, dim9, M9sus2, M9sus4, 9sus2, 9sus4
11, M11, m11, aug11, M11sus2, 11sus2
mM7, mM9, M6, 6, M6(9), m6(9)
```

<table>
<tr><td>Fig</td><td>**A02**</td></tr>
<tr><td colspan="2">Code written during
session on 4 Sep 18</td></tr>
</table>

```python
def chordmap_2(input_file, WRITE_TO_OUTPUT_FILE):
    # STEP 1: MAKE LIST OF CHORDS
    input_notes = open(INPUT_FILE)
    # chordsList, chordTypesList = [i.strip().split(' ') for i in input_notes]
    chordsList = ([i.strip().split() for i in input_notes])
    for i in range(4):
        chordsList.pop()
    print(chordsList)
    print(len(chordsList))
    # STEP 2: MAKE LIST OF DISTANCES BETWEEN NOTES
```

Fig A03

Input and output layer designs

1

2

3

.
.
.
.

127

• • •

Cmaj

Cmin

Caug

.
.
.

Bm6(9)

127 input neurons,
one for each MIDI note

Hidden-layer neuron
structures, if needed, will
be determined during the
development stage

444 output neurons,
one for each chord in the
dataset