```
--------------------------------------------------
```

DIGITAL MUSIC WORKSHOP / 03 / MUSIC BASICS

```
--------------------------------------------------
```

- Scales
- Chords
- Rhythm + Time

SCALES
------

a scale is a sequence of ordered musical notes.

SCALES

------

usually a scale is based on a selection of the 12 notes in an
octave

```
PIANO KEYS:
    B       B           B       B       B
W   |   W   |   W   W   |   W   |   W   |   W   W
00  01  02  03  04  05  06  07  08  09  10  11  12
```

SCALES

```
C CHROMATIC:
C  C# D  D# E  F  F# G  G# A  A# B  C
00 01 02 03 04 05 06 07 08 09 10 11 12


C MAJOR:
C     D     E  F     G     A     B  C
00 01 02 03 04 05 06 07 08 09 10 11 12


C MAJOR PENTATONIC:
C           E  F     G           B  C
00 01 02 03 04 05 06 07 08 09 10 11 12
```

SCALES

------

see `ExampleBasics02Scales`

a chord is a series of notes played simultaneously.

chords are often comprised of 3 tones and usually have a base or *root note* and additional notes (e.g 3rd and 5th).

```
C MAJOR:
C  E  G
00 04 07
```

```
--------------
RHYTHM + TIME
--------------
```

see `ExampleBasics03Beat`

```
-------------
RHYTHM + TIME
-------------


- speed is often measured in *Beats per Minute* (BPM)
- a beat usually refers to a quarter note
- 120BPM == 0.5SEC per quarter note
- MIDI Beat Clock == 24 pulses per quarter note (PPQ)
- 24PPQ*120BPM == 2880 pulses per minute or 48Hz


see ExampleEvent02MIDIClock
```