FREE CANVAS

For Windows

Selection

and how to deal with coordinates

AutoHotKey
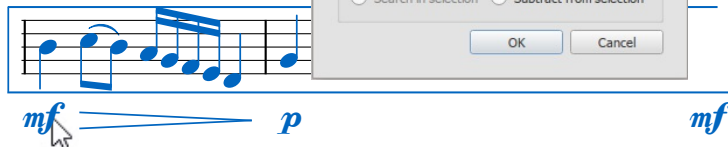for MuseScore
QWERTY-US keyboard

Obviously there is
a range selected.
We put the mouse on
the dynamic and rightclick .
We do 6 times ⇓
We do ⇒
Then ⇑ for 'More'
and press Enter.
Now we arrive at
Window Select.

We want to select
all *mf* 's in the range.
We steer the mouse
to 'Same subtype'
and click.
We do the same for
'In selection'.
Then we press Enter.
This type of action
happens very often.
It's time to automate
this thing.

**Sending Keystrokes
is a no brainer
for AutoHotKey.**

**But what about
the Mouse?**

Notice:
The Header of this
Window is black.
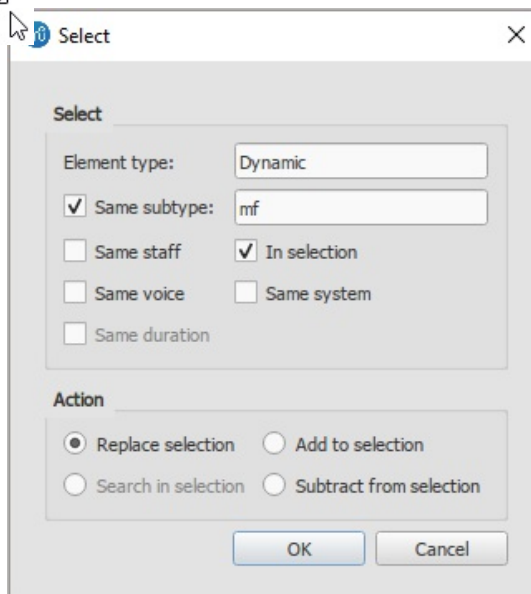It is 'Active'.
It becomes active
the moment
we open it.

The tool PixelMousing *
shows the coordinates
of the Mousecursor
relative to the Active
Window.

By convention the
topleftcorner has the
coordinates
x=0 and y=0.
X is horizontal
Y is vertical.

The coordinates are
independent of the
position of the
Window Select on
the screen.

* For PixelMousing
  See the first instalment
  https://musescore.org/en/node/303798

**We MINIMIZE the window.
Only then we can be sure
that the Mouse always will
hit the right spot.
The measurement can begin.**

Now our job is an easy one.
We're going to determine
the coordinates of all the
hotspots in this Window.
With PixelMousing we
steer the Mouse to the centre
of the little squares and
circles. We make a note
of the numbers. In this way we
get a series of paired numbers.
The first number is always the X
and the second one the Y.

These numbers we enter in
this ahk file:

34_Coordinates_02.ahk

This is the only place where
your coordinates exist.

Just substitute your numbers for
the existing ones, because those
are only valid for the testscreen.

Almost all of the coordinates stayed the same after several updates of MuseScore.

```
WS_01_X := 46          ; (WS_01) Same subtype        WS_01
WS_01_Y := 117         ; Window Select
WS_02_X := 46          ; (WS_02) Same staff          WS_02
WS_02_Y := 144         ; Window Select
WS_03_X := 149         ; (WS_03) In selection        WS_03
WS_03_Y := 144         ; Window Select
WS_04_X := 46          ; (WS_04) Same voice          WS_04
WS_04_Y := 169         ; Window Select
```

The workhorse scripts have lines like this one: click now this field for me!

```
Click, %WS_01_X%, %WS_01_Y%     ; (WS_01) Window Select Same subtype
```
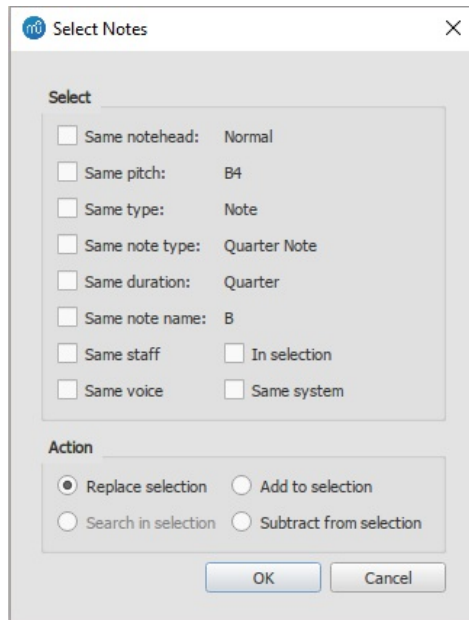
*Put 34_Coordinates_02.ahk in
the same map as all the other
MuseScore AHK files.*

*All other AHK files that use
coordinates will look into
34_Coordinates.ahk and find
there where to send the mouse to.
At the top of their scripts there is
a 'directive', written as #Include.
#Include 34_Coordinates_02.ahk
This does the trick.*

Notice the '_02' in the name of 34_Coordinates_02.ahk
Numbering it this way anticpates future expansions.
Like bookkeepers we need to keep track of the few places
where we have to change something in case of expansion.

Another thing to realise: what can happen when we switch
to an updated version of MuseScore? How do we manage
our DIY parts then? What if coordinates change?
We need some **utilities** to make the switch easy.
These will be published asap.

To get here
we put the mouse
on the note,
rightclick,
do 8 times ⇩
and then ⇒
followed by ⇑
for 'More'
press Enter and
start clicking on some
little squares we need.
And OK to confirm.

Select Notes ✕

Select

☐ Same notehead: Normal
☐ Same pitch: B4
☐ Same type: Note
☐ Same note type: Quarter Note
☐ Same duration: Quarter
☐ Same note name: B
☐ Same staff   ☐ In selection
☐ Same voice   ☐ Same system

Action

◉ Replace selection   ○ Add to selection
○ Search in selection   ○ Subtract from selection

OK   Cancel

There are
many situations
imaginable
where the Window
Select Notes
plays an
important role.
We give it the
same treatment as
the Window Select.

**Don't forget to MINIMIZE
the Window Select Notes
before measurements!**

```
WSN_01X := 46        ; (WSN_01) Same notehead          WSN_01
WSN_01Y := 88        ; Window Select Notes
WSN_02X := 46        ; (WSN_02) Same pitch             WSN_02
WSN_02Y := 113       ; Window Select Notes
WSN_03X := 46        ; (WSN_03) Same type              WSN_03
WSN_03Y := 138       ; Window Select Notes
WSN_04X := 46        ; (WSN_04) Same note type         WSN_04
WSN_04Y := 163       ; Window Select Notes
WSN_05X := 46        ; (WSN_05) Same duration          WSN_05
WSN_05Y := 188       ; Window Select Notes
WSN_06X := 46        ; (WSN_06) Same note name         WSN_06
WSN_06Y := 213       ; Window Select Notes
WSN_07X := 46        ; (WSN_07) Same staff             WSN_07
WSN_07Y := 238       ; Window Select Notes
```

Again: we substitute the old
numbers for our new found ones.
Notice: after **:=** there is a **space**
and then the number.

The Selection Info opens with [+ 1

*"These macro's are an excellent example
of simplicity combined with elegance
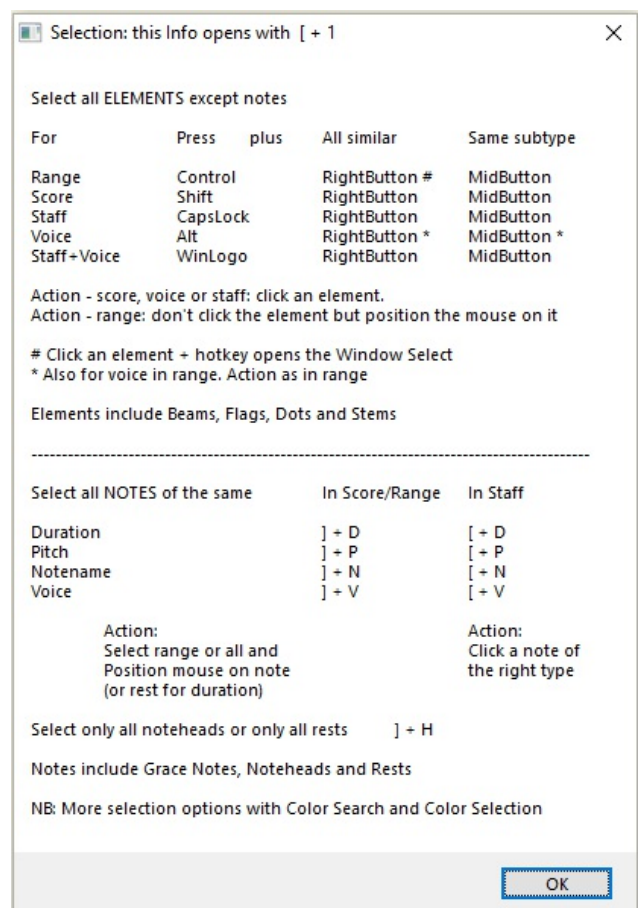and effectiveness."
(MuseScore Global)*

**The WinLogokey
in the shortcuts
is the left Winkey.
If you prefer the
right Winkey: see
the .ahk file.**

On the computer keyboard the opening and closing bracket
form a cool pair. The keys **[** and **]** are easily associated
with open and close, with the idea of a region, a start and
a finish. Even more: their conjunction **[ ]** looks like a screen.
In the further development of this AHK Kit the brackets
will play several roles. An important role will be to keep
groups of related macros manageable.
And hopefully easier to remember.

Selection and ColorSearch are the members of the first group.
In the final organisation of the kit this group will be opened
by **[+ F1** and closed by **] + F1**.

When you have assigned MuseScore shortcuts to **[** and **]**
consider to redefine them.

*In 34_Selection_02.ahk replace the path
S:\MuseScore 3.4\bin\MuseScore3.exe
with your location of MuseScore3*

*Instalment 03: Color Search and Selection
coming soon*

Selection: this Info opens with [+ 1 ✕

Select all ELEMENTS except notes

For	Press plus	All similar	Same subtype
Range	Control	RightButton #	MidButton
Score	Shift	RightButton	MidButton
Staff	CapsLock	RightButton	MidButton
Voice	Alt	RightButton *	MidButton *
Staff+Voice	WinLogo	RightButton	MidButton

Action - score, voice or staff: click an element.
Action - range: don't click the element but position the mouse on it

\# Click an element + hotkey opens the Window Select
* Also for voice in range. Action as in range

Elements include Beams, Flags, Dots and Stems

Select all NOTES of the same	In Score/Range	In Staff
Duration	] + D	[+ D
Pitch	] + P	[+ P
Notename	] + N	[+ N
Voice	] + V	[+ V

Action: Action:
Select range or all and   Click a note of
Position mouse on note   the right type
(or rest for duration)

Select only all noteheads or only all rests   ] + H

Notes include Grace Notes, Noteheads and Rests

NB: More selection options with Color Search and Color Selection

OK