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Unlimited Undos For Text Fields



For those who like unlimited undos (or is it ram limited undos?) an undo framework starter for text in fields.

This script can be placed in a stack script and will act on all (editable) fields.

Drag-dropping text from one field to the other is supported.

It is functional and tested on OS X. But for the other platforms I don't know yet.

```
global gHistory
local lSC,lData

on rawkeydown x
    writeHistory x
    pass rawkeydown
end rawkeydown

on dragstart
    put the selectedchunk into lSC
    pass dragstart
end dragstart

on dragend
    put the dragData["text"] into lData
    send "checkdragdata" to me in 20 millisecs
    pass dragend
end dragend

on checkdragdata
    put the selectedchunk into tSC
    get word -2 to -1 of lSC
    put word 1 to 7 of the long id of it into tFNameOrig
    get word -2 to -1 of tSC
    put word 1 to 7 of the long id of it into tFNameDest
    if tFNameOrig = tFNameDest and not (word 2 of tSC > word 4 of tSC)
then
    put "d",lSC,tSC,hexadize(lData) & cr after gHistory[tFNameDest]
    else if tFNameOrig <> tFNameDest then
        delete word 3 to 4 of lSC
        put "x",lSC,hexadize(lData) & cr after gHistory[tFNameOrig]
        put "v",tSC,hexadize(lData) & cr after gHistory[tFNameDest]
    end if
    put "" into lSC
    put "" into lData
end checkdragdata

### first item indicates the action
### w = write
### v = paste
### x = cut
### b = backspace
### d = dragplaced

on writeHistory x
    put the selectedchunk into tSC
    get word -2 to -1 of tSC
    put word 1 to 7 of the long id of it into tFName
    if the commandkey is down then
        switch x
        case "122" ### z
            reverseHistory
            break
        case "118" ### v
            put clipboardData["text"] into x
            put "v",tSC,hexadize(x) & cr after gHistory[tFName]
            break
        case "120" ### x
            put the value of tSC into x
            if x <> "" then
                delete word 3 to 4 of tSC
                put "x",tSC,hexadize(x) & cr after gHistory[tFName]
            end if
        end if
    end if
end writeHistory
```

```

        break
    end switch
else
    switch x
    case "65421" ### enter in field
    case "65307" ### escape key
    case "65308" ### scrollwheel up and down
    case "65309"
    case "65361" ### arrowkeys
    case "65363"
    case "65362"
    case "65364"
        -- do nothing
        break
    case "65288" ### backspace
        if word 4 of tSC <> 0 then
            if word 2 of tSC < word 4 of tSC then
                get the value of tSC
                delete word 3 to 4 of tSC
            else if word 2 of tSC > word 4 of tSC then
                delete word 2 to 3 of tSC
                get the value of tSC
            end if
            put hexadize(it) into x
            put "b",tSC,x & cr after gHistory[tFName] ## b = backspace
        end if
        break
    case "65293" ### return in field
        delete word 3 to 4 of tSC
        put "w",tSC,hexadize(return) & cr after gHistory[tFName]
        break
    default
        delete word 3 to 4 of tSC
        put "w",tSC,hexadize(numtochar(x)) & cr after gHistory[tFName]
        break
    end switch
end if
end writeHistory

on reverseHistory
    put word 1 to 7 of the the focusedobject into tFName
    if gHistory[tFName] = "" then
        beep
        exit reverseHistory
    end if
    get line -1 of gHistory[tFName]
    delete line - 1 of gHistory[tFName]
    switch item 1 of it
    case "b"
        put dehexasize(last item of it) into x
        if x = return then put "cr" into x
        else if x = space then put "space" into x
        else if x = tab then put "tab" into x
        else
            replace quote with quote & "&"e&" & quote in x
            replace cr with quote&"&cr&"& quote in x
            put quote & x & quote into x
        end if
        do "put" && x && "before" && item 2 of it
        break
    case "w"
        do "delete" && item 2 of it
        break
    case "v"
        put dehexasize(last item of it) into x
        put the num of chars in x into y
        put word 2 of item 2 of it + y - 1 into word 4 of item 2 of it
        do " delete" && item 2 of it
        break
    case "x"
        put dehexasize(last item of it) into x
        if x = return then put "cr" into x
        else if x = space then put "space" into x
        else if x = tab then put "tab" into x
        else
            replace quote with quote & "&"e&" & quote in x
            replace cr with quote&"&cr&"& quote in x
            put quote & x & quote into x
        end if
        do " put" && x && "before" && item 2 of it
        break
    case "d"

```

```

    put dehexadize(last item of it) into x
    if last char of x = cr then add 1 to word 4 of item 3 of it
    if the num of lines in x > 1 then delete last char of x
    if x = return then put "cr" into x
    else if x = space then put "space" into x
    else if x = tab then put "tab" into x
    else
        replace quote with quote & "e&" & quote in x
        replace cr with quote&"&cr&"& quote in x
        put quote & x & quote into x
    end if
    do "delete" && item 3 of it
    delete word 3 to 4 of item 2 of it
    do "put" && x && "before" && item 2 of it
    break
end switch
end reverseHistory

### Big Endian BinaryDecode ###
function hexadize sx
    get binarydecode("H*", sx, x1)
    return x1
end hexadize

### Big Endian Binary Encode ###
function deHexadize sx
    replace space with "" in sx
    try
        get binaryEncode("H*", sx, x1)
    catch errornum
        put "no hex value" into it
    finally
        return it
    end try
end deHexadize

#####
## for test purposes ##
#####

on emptyHistory
    delete global gHistory
end emptyHistory

on putHistory
    put word 1 to 7 of the the focusedobject into tFName
    if the optionkey is down then put the keys of gHistory
    else put gHistory[tFName]
end putHistory

```

Posted 2/24/2005 by Wouter Abraham to the Use Revolution List

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