

## Computers &amp; the Humanities 281

## Lecture Transcript Examples

This page is designed to provide all the examples commands used in class instruction. Remember that such commands must be employed within a message handler in order to work.

## Transcript

## Variables/Containers

```
put 2 into holder
put holder into field "result"
put 5 into field "result"
add 12 to field "result"

get the long time
put it into field "result"
```

## Constants/Literals

```
put seven into field "result"
put pi into field "result"

put "whatever is here"

put "hello" into greeting
put greeting into field "result"
put "greeting" into field "result"

put 2 + 6 into message
put "2 + 6" into message

put fruit
put "banana" into fruit
put fruit
```

## Operators

```
put 4 + 9 into field "Result"
put 3-7 into field "result"
put 5 * 2 into field "Result"
put 13 / 3 into field "Result"
put 7 ^ 4 into field "Result"
put 2 + 3 * 4 + 1 into fld "Result"
put (2 + 3) * (4 + 1) into fld "Result"

put 4 div 2 into field "Result"
put 7 div 2 into field "Result"
put 3.99 div 2 into field "Result"

put 4 mod 2 into field "Result"
put 7 mod 2 into field "Result"
put 3.99 mod 2 into field "Result"
```

## Commands

```
put 9 into field "result"
put 4 after field "Result"
put 2 before field "Result"

add 9 to field "Result"
subtract 4 from field "Result"
multiply field "Result" by 7
divide field "Result" by 2

put card field "Result" / 2 into card field "Result"
```

## Functions

```
put the sqrt of 25 into field 1
put "aa" into line 2 of fld 1
put "bb" into line sqrt(4) of fld 1

put the abs of -23 into field 1
put abs (-23) into field 1

put average(12,3,5,19) into fld 1
put max(12,3,5,19) into fld 1
```

```

put min(12, 3, 5, 19) into fld 1
put average(cd fld "list") into fld 1
put max(cd fld "list") into fld 1
put min(cd fld "list") into fld 1
put random (10) into field 1

```

### Concatenation

```

put "abc" & "def" into fld 1
put "The" && "cat" into fld 1
put "ano" & "the" & "r" && "exam" & "ple" into fld 1

put "mine", "yours" into fld 1
put fld 1, "ours" into fld 1

put "mine" & comma & "yours" into fld 1
put "a "hot" car" into fld 1
put "a" && quote & "hot" & quote && "car" into fld 1
put "first" & return & "second" into fld 1
put "aa" & space & "bb" into fld 1
put "xxx" & tab & "yyy" into fld 1
put empty into fld 1

```

### Boolean Operators

```

put 80 > field "Average" into fld 1
put 80 < field "Average" into fld 1
put 60 >= field "Average" into fld 1
put 60 <> field "Average" into fld 1
put 40 is not field "Average" into fld 1

put "house" = "home" into fld 1
put "elephant" < "mouse" into fld 1
put "lightning" > "lightning bug" into fld 1
put "AAA" = "aaa" into fld 1
put "schon" = "schšn" into fld 1
put "schon" <> "schšn" into fld 1

```

### If...Then...Else Control Structure

```

on mouseUp
  put empty into field "result"
  put random(6) into field "yours"
  if field "yours" = field "Lucky" then put "You win!" into field "result"
end mouseUp

on mouseUp
  put empty into field "result"
  put random(6) into field "yours"
  if field "yours" = field "Lucky"
    then put "You win!" into field "result"
    else put "Try again." into field "result"
  end if
end mouseUp

on mouseUp
  put empty into field "result"
  put random(6) into field "yours"
  if field "yours" = field "Lucky" then
    put "You win!" into field "result"
    wait 3 seconds
    put "Click to continue." into field "result"
    wait until the mouseClick
    put empty into fld "yours"
    put empty into fld "result"
  else
    put "Try again." into field "result"
  end if
end mouseUp

```

### Repeat Control Structure

```

on mouseUp
  put empty into field "result"
  repeat fld "reps" times
    put "X" after fld "result"
    beep
    wait 20 ticks
  end repeat
end mouseUp

on mouseUp
  put empty into field "result"
  repeat with i = 1 to field "reps"
    put i into fld "counter"
  end repeat
end mouseUp

```

```
        put "X" after fld "result"
        beep
        wait 20 ticks
    end repeat
end mouseUp

on mouseUp
    put empty into fld "result"
    put 0 into fld "counter"
    repeat while fld "counter" < fld "reps"
        add 1 to fld "counter"
        put "X" after fld "result"
        beep
        wait 30 ticks
    end repeat
end mouseUp

on mouseUp
    put empty into field "result"
    put 0 into fld "counter"
    repeat until fld "counter" = fld "reps"
        add 1 to fld "counter" -- increment counter
        put "X" after fld "result"
        beep
        wait 30 ticks
    end repeat
end mouseUp
```

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