
Subject: Child marriage median Mozambique
Posted by [Simon](#) on Wed, 09 Oct 2024 20:10:45 GMT
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Hi there,

I wrote some stata code to automatically return medians in complex survey design datasets.
Compliments this post: https://userforum.dhsprogram.com/index.php?t=msg&th=1337&goto=2470&S=08c954804736d97c007deae6e959abed#msg_24_70

Here it is:

```
tempfile outputlog
log using `outputlog', text replace

tab ageMarried if gender1 == 1 & age > 24 & age < 50 [iweight=wt],m

log close

file open myfile using `outputlog', read
file read myfile line

local cum_sum = 0
local prev_cum_pct = 0
local stopper = 0

while r(eof) == 0 {

    if `stopper' == 3 {

    }
    else {
        if regexm("`line'", "[0-9]+") {
            local cum_pct = real(word("`line'", -1))
            local age_pct = real(word("`line'", 1))

            if `cum_pct' < 50 | `prev_cum_pct' == 0 {
                local prev_cum_pct = `cum_pct'
            local prev_cum_pct1 = `cum_pct'
            }
            else if `cum_pct' >= 50 {
                local stopper = `stopper' + 1
                local medianCalc = (`age_pct')+1*(50-`prev_cum_pct')/(`cum_pct'-`prev_cum_pct')
```

```
display `medianCalc'
```

```
}
```

```
}
```

```
}
```

```
file read myfile line
```

```
}
```

```
file close myfile
```

You might have to vary the stopper limit depending on the variable - I couldn't find a nicer way of escaping the while...

Cheers
