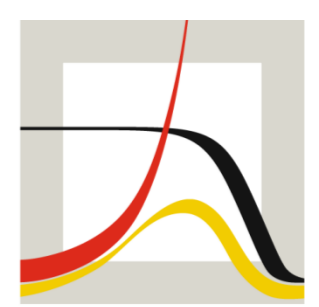


hmddata : A Stata Module to Access and Work with Data from the Human Mortality Database

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hmddata: HMD Data in Stata

- easy data access
 - download HMD data via zip files
 - convert all or selected data to Stata format
- processes any zip file on the HMD website, including the comprehensive ones
- converts all data or selected concepts / countries
- quick generation of working-quality tables and graphs
- detailed documentation in Stata help files supplemented by MPDIR Technical Report TR-2017-001

Complements Existing R Packages and Scripts

- Available R packages
 - MortalityLaws (Pascariu / Canudas-Romo)
 - HMDHFDplus (Riffe)
 - demography (Hyndman), function hmd.mx()
 - function HMD2R() (Boe)
- All R packages access text files over the web one-by-one

Get Started

1) Install

```
. net install hmddata,
from(https://user.demogr.
mpg.de/schneider/stata)
```

2) Download data

All statistics for HMD
All HMD statistics (156360 Kb)

3) Text to Stata conversion

```
. hmddata convert
_all, [...]
```

4) Access data locally

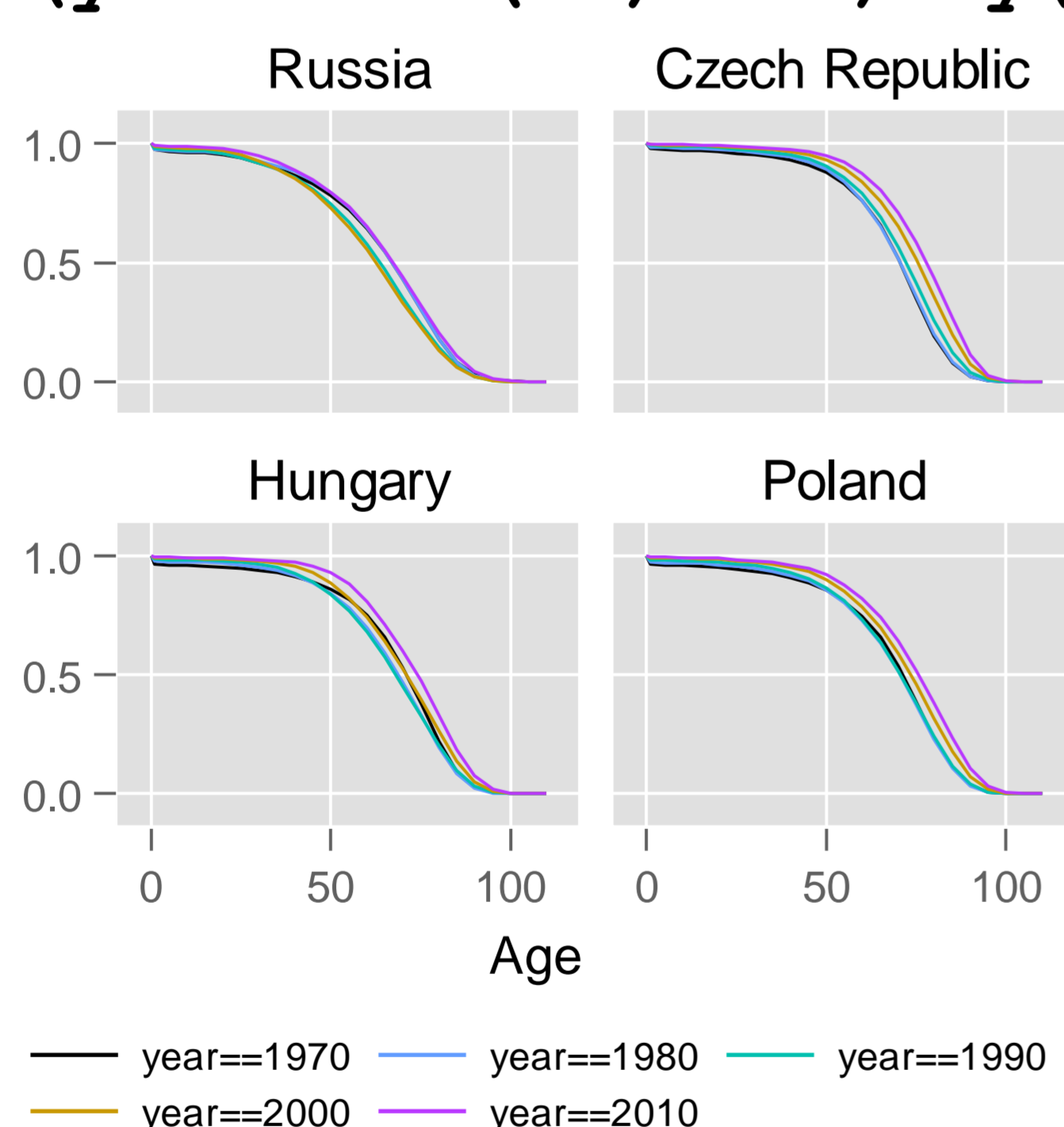
```
. hmddata use
deathrates, [...]
```

	popname	year	age	female
1	U.S.A.	1933	0	0.05451
2	U.S.A.	1933	1	0.00887
3	U.S.A.	1933	2	0.00403
4	U.S.A.	1933	3	0.00287

Examples

```
. hmddata use deathrates
. hmddata use deathrates cohort,
grid(5x10)
. hmddata use lifetable
. hmddata use lifetable female,
popfilter(slovak chile)
. hmddata use lifet fem coh
. hmddata use births raw
(...)
```

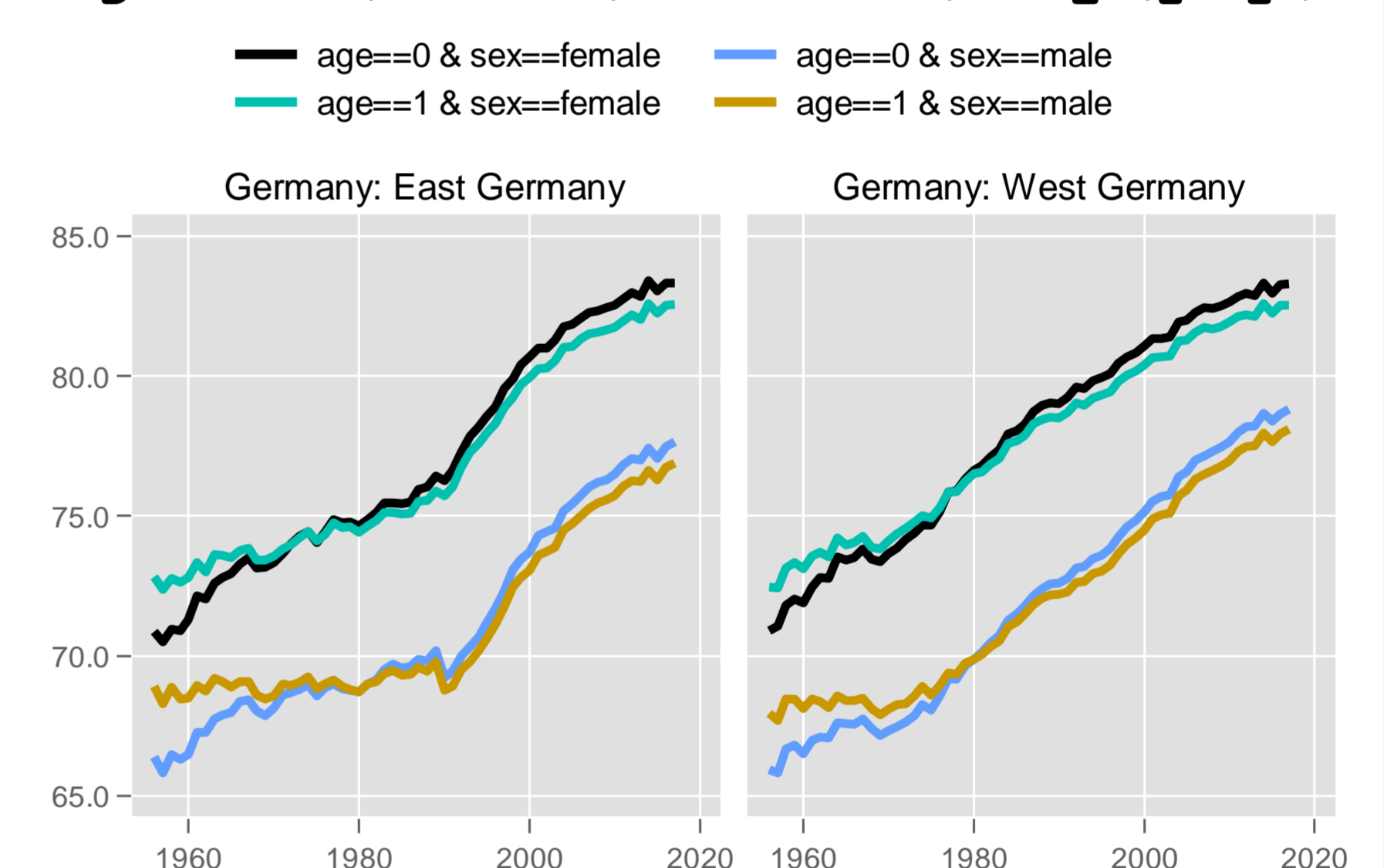
```
. hmddata use lifet m, gr(5x10)
popf(pol russ hung czech)
. replace lx = lx / 100000
. hmddata graph line lx age,
at1(year 1970(10)2010) by(pop)
```



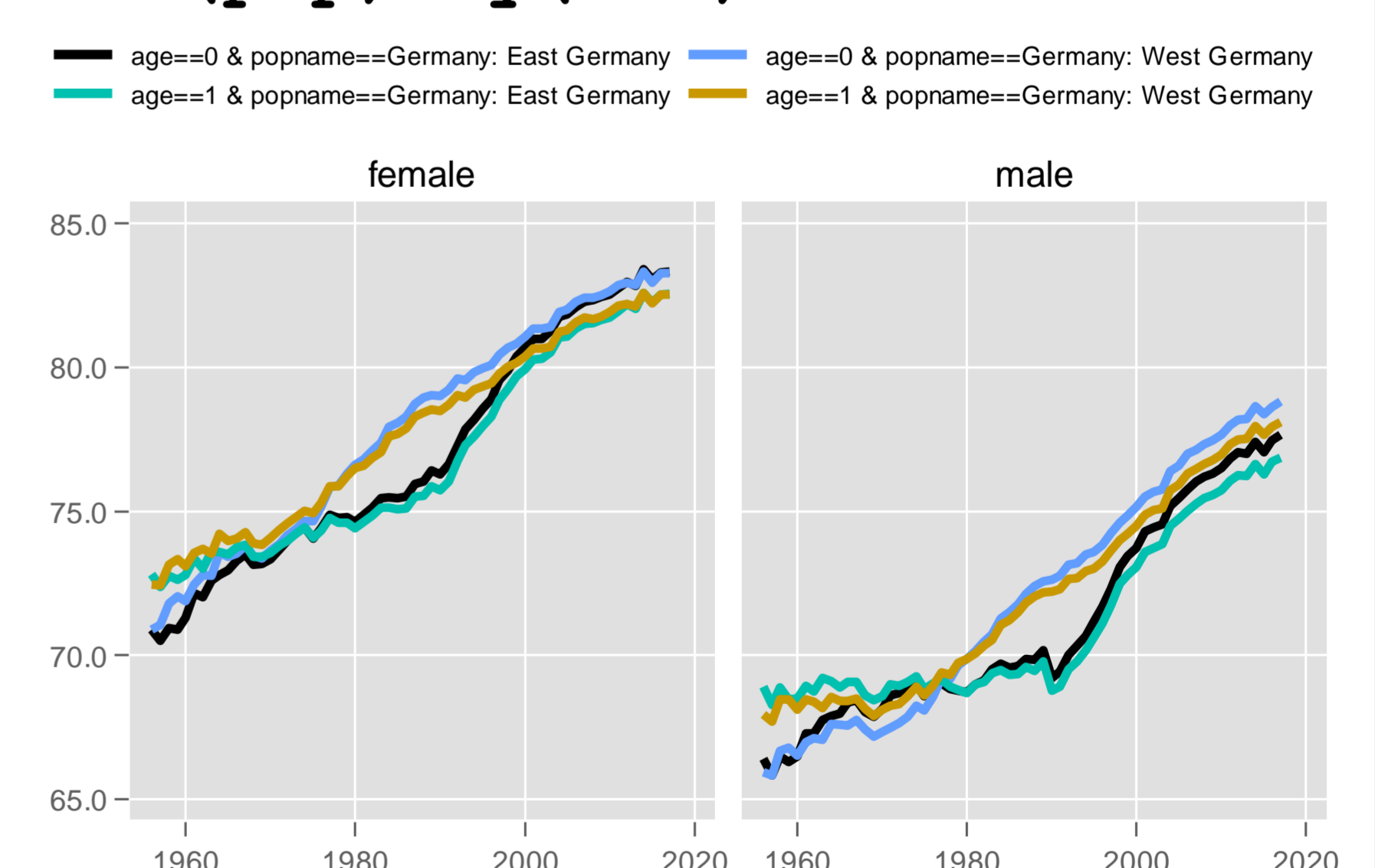
```
. hmddata use lifet b, gr(5x10)
. hmddata popfilter esp prt
ita , iso dummy(d1)
. keep if yearint==10 &
year>=1940 &
inlist(age,0,1,20,40,60,80)
. hmddata interv agestr yearstr
. table agestr popname if d1,
contents(max mx min mx)
```

Age interval	Country / Population name		
	Italy	Portugal	Spain
0	0.1024 0.0038	0.1334 0.0041	0.1078 0.0037
1-4	0.0104 0.0002	0.0207 0.0003	0.0115 0.0002
20-24	0.0073 0.0005	0.0045 0.0007	0.0049 0.0005
40-44	0.0059 0.0012	0.0068 0.0022	0.0070 0.0015
60-64	0.0215 0.0078	0.0239 0.0092	0.0258 0.0080
80-84	0.1683 0.0642	0.1474 0.0783	0.1453 0.0646

```
. hmddata use lifet, popfilter(
germanyeast germanywest)
. hmddata intervals
. hmddata graph li ex year, at1(
age 0 1) at2(sex f m) by(pop)
```



```
. hmddata gr li ex year
if sex!=3, at1(age 0 1)
at2(pop) by(sex)
```



Documentation

Core functions

Set and query hmddata user settings
`hmddata settings [parameter] , [value(valstring)]`

Convert source data text files to hmddata files
`hmddata convert fullconcepts spec , sourcedir(dirstring) [grid(gridlist) replace]`

Load HMD data
`hmddata use fullconcepts spec , [popfilter(poplists spec) grid(gridspec) long clear]`

Data handling

Generate age and year interval variables
`hmddata intervals [intvarvars] , [noorder]`

Filter data set according to a subset of populations
`hmddata popfilter poplist , [iso noerror droplist dummy(varname)]`

Generate graphs based on hmd data sets
`hmddata graph plottype plotvars xvar [if] [in] , [at1(atspec) at2(atspec) by(varlist[, byopts]) plotopts(pline_options) twoway_options]`

Detailed explanations

`fullconcepts spec` is composed of:

`concepts spec [concept_subspec] [concept_sexspec]`

`concept_subspec` and `concept_sexspec`, if used, can be specified in any order, but they must occur after `concepts spec`.

`concepts spec` is one of the following (underlined parts of words indicate minimum abbreviations):

`births`
`deaths`
`deathsbylexistriangles`

