SOK-2008-2022-oppgave5

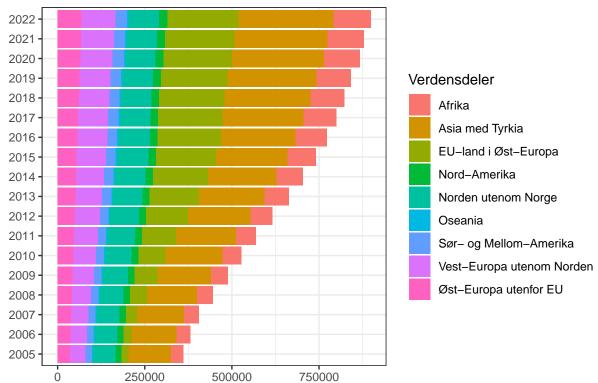
Håvard Chramer

Utfordring 5.1

1.

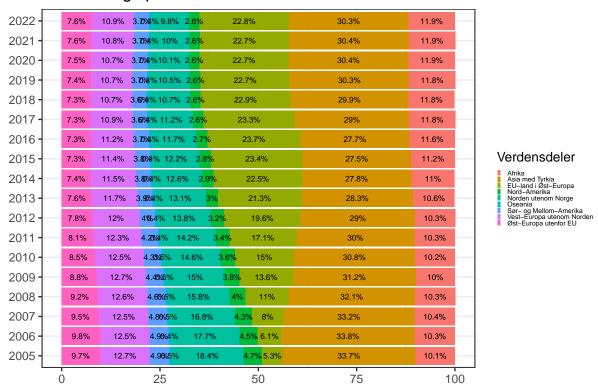
```
innvandrere <-
 ApiData("https://data.ssb.no/api/v0/no/table/05185/",
         Landbakgrunn=list('agg:Verdensdel2', c("b11", "b12", "b13", "b14",
                                                "b2", "b3", "b4", "b5", "b6")),
         Tid=list('item', c("2005", "2006", "2007", "2008", "2009", "2010",
                            "2011", "2012", "2013", "2014", "2015", "2016",
                            "2017", "2018", "2019", "2020", "2021", "2022")),
         Kjonn=FALSE,
         ContentsCode=TRUE)
innvandrere <- as.tibble(innvandrere[[1]])</pre>
## Warning: 'as.tibble()' was deprecated in tibble 2.0.0.
## i Please use 'as tibble()' instead.
## i The signature and semantics have changed, see '?as_tibble'.
innvandrere[-2] %>%
 pivot_wider(names_from = ar, values_from = value)
## # A tibble: 9 x 19
    landba~1 '2005' '2006' '2007' '2008' '2009' '2010' '2011' '2012' '2013' '2014'
##
              <int> <int> <int>
                                   <int>
                                          <int> <int>
                                                        <int>
                                                               <int>
                                                                      <int>
                                                                            <int>
## 1 Norden ~
              66516 67139
                            68214
                                   70368
                                          73325 76974
                                                        81046
                                                              84864
                                                                     86867 88791
              45781 47734 50727
                                          62002 65990
## 2 Vest-Eu~
                                   56027
                                                        69774 73838
                                                                     77935 81213
## 3 EU-land~
              19272 23298 32304
                                   49117
                                          66360
                                                79064
                                                        97522 120649 141653 158745
## 4 Øst-Eur~
              34984 37106 38520
                                   40918
                                          42985
                                                 44615
                                                        46145
                                                              47987
                                                                     50267
## 5 Afrika
              36446 39307 42100
                                   45697
                                          49104 53582 58503
                                                              63205
                                                                     70579
## 6 Asia me~ 121855 128537 134657 142896 152636 162516 170754 178999 187931 196054
## 7 Nord-Am~ 16859 17001 17305
                                   17711
                                          18356 18846 19177
                                                              19427
                                                                      20000 20249
## 8 Sør- og~ 17795 18575 19438
                                   20549
                                                 22808 23653
                                                              24707
                                                                     25908 27011
                                          21737
                                           2248
## 9 Oseania
               1636
                      1671
                             1843
                                    2076
                                                  2404
                                                         2522
                                                                2610
                                                                       2730
## # ... with 8 more variables: '2015' <int>, '2016' <int>, '2017' <int>,
      '2018' <int>, '2019' <int>, '2020' <int>, '2021' <int>, '2022' <int>, and
      abbreviated variable name 1: landbakgrunn
```

Innvandring totalt 2005 til 2022



```
theme(legend.key.height= unit(0.1, 'cm'),
    legend.key.width= unit(0.1, 'cm'),
    legend.text = element_text(size=5),
    legend.title = element_text(size=10))
```

Innvandring i prosent 2005 til 2022



2.

Næringslivssektor blant innvandrere fra EU-land i Øst-Europa

