

1. Data used in Exploratory Visualization

(1) Overall explanation: <https://www.epa.gov/pm-pollution/particulate-matter-pm-basics>

(2) PM10 in South Korea:

https://kosis.kr/statHtml/statHtml.do?orgId=106&tblId=DT_106N_03_0200045

(3) PM2.5 in South Korea:

https://kosis.kr/statHtml/statHtml.do?orgId=106&tblId=DT_106N_03_0200145

(4) AQI of major cities in oversea:

https://www.airkorea.or.kr/web/contents/contentView/?pMENU_NO=127&cntnts_no=4

(5) .geojson for the map

<https://github.com/southkorea/southkorea-maps/tree/master/kostat/2018/json>

Manipulation:

- Data sets in 2 and 3 were provided monthly average, so I computed annual average.
- There were missing values and estimated values due to technical issue of the provider. I ignored the missing values when I computed the annual average; I used the estimated values as measured values.

2. Data used in Narrative Visualization

(1) Global Fertility Rate (2008-2019): OECD

(2) Population of Women in Employment Discontinuity (2014-2020): KOSTAT

(3) Ratio of Women in Employment Discontinuity by Different Age Group (2014-2020): KOSTAT

(4) Ratio of Reasons for Employment Discontinuity by Different Age Group (2020): KOSTAT

(5) Ratio of Women in Employment Discontinuity by Child Age (2020): KOSTAT

(6) Global Pay Gap between Men and Women (2018, 2019): KOSTAT

(7) Employment Rate Gap between Men and Women by Different Age Group (2010-2020): KOSTAT

(6) Employment Rate Gap of Temporary Worker between Men and Women (2010-2020): KOSTAT

(7) Population of Parents Who Applied Parental Leave (2010, 2014, 2017-2019): KOSTAT

(8) Average Minutes Per Day of Men and Women Spent in Household Activities by Different Income Source Type (2019): KOSTAT

URLs

(1) <https://data.oecd.org/pop/fertility-rates.htm>

(2), (3)

https://kosis.kr/statisticsList/statisticsListIndex.do?menuId=M_01_01&vwcd=MT_ZTITLE&parmTabId=M_01_01&outLink=Y&parentId=D.1;D_32.2;#D_32.2

(4), (5)

https://kostat.go.kr/portal/korea/kor_nw/1/3/3/index.board?bmode=read&aSeq=386282&pageNo=&rowNum=10&amSeq=&sTarget=&sTxt=

(Report about the status of Women in Employment Discontinuity – Research conducted in the first half of 2020)

(6) <https://data.oecd.org/earnwage/gender-wage-gap.htm>

(7)

http://kostat.go.kr/portal/korea/kor_nw/1/1/1/index.board?bmode=read&aSeq=386975&rowNum=10&amSeq=&sTarget=&sTxt=

(Report about the statistics of people applied parental leave – Research conducted in 2019)

(8)

http://kostat.go.kr/portal/korea/kor_nw/1/6/4/index.board?bmode=read&aSeq=384161&pageNo=&rowNum=10&amSeq=&sTarget=&sTxt=

(Report about how people distribute time on daily activities)

Manipulation:

- Mostly structural manipulation to use the data more efficiently (i.e., switching columns and rows)
- If the original data did not provide the ratio, I computed them.