Methodology

To measure the growth of home schooling during the pandemic, The Washington Post collected home-school student counts from 6,738 school districts. Together with students from The Washington Post Investigative Reporting Workshop practicum at American University, reporters trawled state websites, contacted education officials in all 50 states and the District of Columbia and submitted multiple public records requests for an annual count of home-schoolers from the 2017-18 school year through 2022-23. The Post ultimately collected data for all public school districts in 29 states and D.C. In all, The Post gathered data from states representing 61% of the American school-age population.

The Post made every effort to capture all legal ways to home-school, which vary by state. However, data on home schools established by certain methods, such as registering one's home-school as a private school, are tracked by some states but not others. That means The Post's tally is almost certainly an undercount, even in the states from which it gathered data. For instance, Wisconsin and Georgia only provided The Post with tallies of home-schoolers who had submitted required forms electronically. In Kentucky, some districts incorrectly reported zero or one home-schooled students in certain years, which a state education official attributed to an unclear form. The Post excluded those enrollment figures from its analysis. In California, which does not explicitly permit home schooling, many parents operate home-based private schools. The California Department of Education characterizes private schools with five or fewer students as home schools. In Louisiana, many home schools operate as nonpublic schools not seeking accreditation; The Post counted such schools with five or fewer students as home schools as well.

The statewide numbers are not always equivalent to the sum of all district totals in a state. Some states suppress district-level counts of home schoolers below a certain threshold. In Maine, the threshold is 5; in New Mexico, 6; in Mississippi, Ohio and Tennessee, 10; in Wisconsin before 2020-21, 5; and in Wisconsin from 2021-22 on, 20. The Post marked such suppressions as NA within its data. In addition, New Hampshire collects separate data on students who enter home schooling from schools run by the state department of education or from private schools; these additional students are reflected in state data but not district data.

The Post used a variety of methods to match each school district name to an NCES district id. However, this was not always possible. In Georgia, families self-report their school district on home-schooling forms; some report programs which are not school districts, and therefore have no corresponding NCES id. In California, families were only required to report county and school district beginning in 2020-21; in addition, district mergers and name changes mean that some districts could not be matched with NCES ids. In Arkansas, 12 home-schoolers reported no school district in 2022-23. The Post marked all such home-schoolers as being within NA districts.

The Rise of Home Schooling Data from The Post's analysis of home-schooling enrollment across the US

This repository shares data hand-collected by The Washington Post from individual school districts and states as a whole regarding home-school enrollment from 2017-18 through 2022-23

```
import pandas as pd
import numpy as np
import matplotlib.pylab as plt
import seaborn as sns
plt.style.use('ggplot')
```

home_school_state

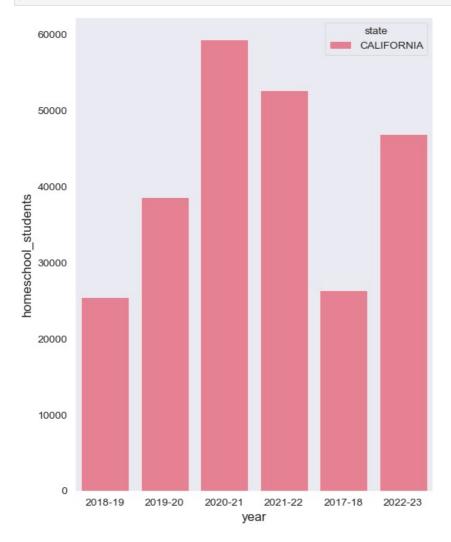
```
In [2]: data_state = pd.read_csv('home_school_state.csv')
    data_state=data_state.sort_values(by=['state'],ascending=True)
    data_state
```

ut[2]:		state	year	homeschool_students
	51	ARKANSAS	2018-19	21959.0
	84	ARKANSAS	2019-20	22249.0
	183	ARKANSAS	2022-23	29762.0
	117	ARKANSAS	2020-21	30267.0
	18	ARKANSAS	2017-18	20331.0
	116	WYOMING	2020-21	3884.0
	83	WYOMING	2019-20	2585.0
	50	WYOMING	2018-19	1797.0
	17	WYOMING	2017-18	2572.0
	182	WYOMING	2022-23	3769.0

198 rows × 3 columns

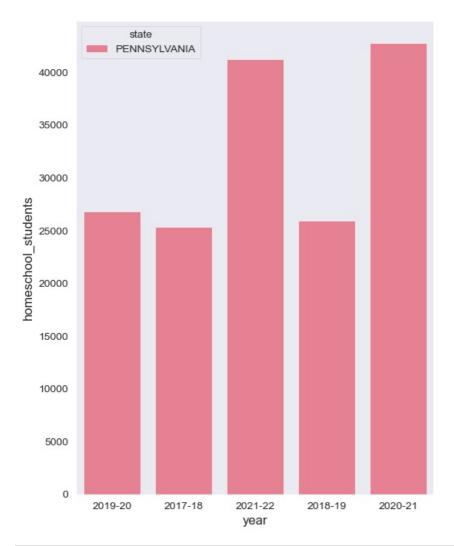
```
<class 'pandas.core.frame.DataFrame'>
          Index: 198 entries, 51 to 182
          Data columns (total 3 columns):
          # Column
                                     Non-Null Count Dtype
          0
                                     198 non-null
              state
                                                      obiect
          1
               year
                                     198 non-null
                                                       object
          2
               homeschool students 192 non-null
                                                       float64
          dtypes: float64(1), object(2)
          memory usage: 6.2+ KB
 In [4]: data state.describe()
                homeschool_students
 Out[4]:
                         192.000000
          count
          mean
                       23392.354167
                       26237.918687
           std
                         389.000000
           min
           25%
                        4884.000000
           50%
                       17765.000000
           75%
                       30220.500000
                      154289.000000
 In [5]:
          data state.shape
          (198, 3)
 Out[5]:
 In [6]:
          data state=data state.dropna()
          data state
                           year homeschool_students
 Out[6]:
          51 ARKANSAS 2018-19
                                            21959.0
          84 ARKANSAS 2019-20
                                            22249.0
          183 ARKANSAS 2022-23
                                            29762.0
          117 ARKANSAS 2020-21
                                            30267.0
           18 ARKANSAS 2017-18
                                            20331.0
          116
                                             3884.0
              WYOMING 2020-21
              WYOMING 2019-20
                                             2585.0
               WYOMING 2018-19
                                             1797.0
           50
          17
              WYOMING 2017-18
                                             2572.0
          182
              WYOMING 2022-23
                                             3769.0
         192 rows × 3 columns
 In [7]: data_state.shape
          (192, 3)
 Out[7]:
 In [8]:
          def get state(state):
              return data_state[data_state['state'] == str(state)]
          get_state('CALIFORNIA')
 In [9]:
                            year homeschool_students
 Out[9]:
                    state
           33 CALIFORNIA 2018-19
                                             25423.0
           66 CALIFORNIA 2019-20
                                             38532.0
           99 CALIFORNIA 2020-21
                                             59275.0
          132 CALIFORNIA 2021-22
                                             52623.0
           0 CALIFORNIA 2017-18
                                             26345.0
          165 CALIFORNIA 2022-23
                                             46814.0
          sns.set_style("ticks")
In [10]:
          sns.set_style("dark")
          sns.set palette("husl")
          plt.figure(figsize=(6, 8))
          sns.barplot(x="year", y="homeschool_students",hue="state" ,data=get_state('CALIFORNIA'))
```



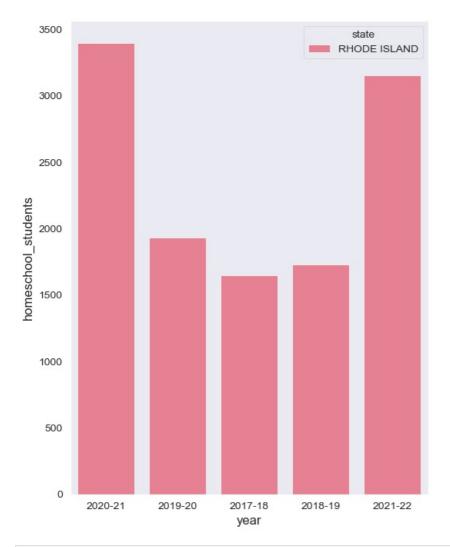


Three states — Pennsylvania, Rhode Island and Tennessee — have not published the number of home-schoolers in 2022-23, and Maine only shared district-level data starting with the 2020-21 school year. In seven states, The Post was unable to obtain usable home-school enrollment figures: In Arizona, Nevada and Oregon, only new home-school registrations are tracked annually at the district level; in North Carolina, home-school registration rolls are not regularly purged as students age out of the system; and in West Virginia, Utah and Alabama, annual enrollment data is unavailable. Eleven additional states do not require any notice when families decide to home-school their children, so enrollment figures in those states are also unavailable. Finally, Montana, Vermont and Nebraska collect data at a county level, not a district level, so there is no district data available - only statewide figures.

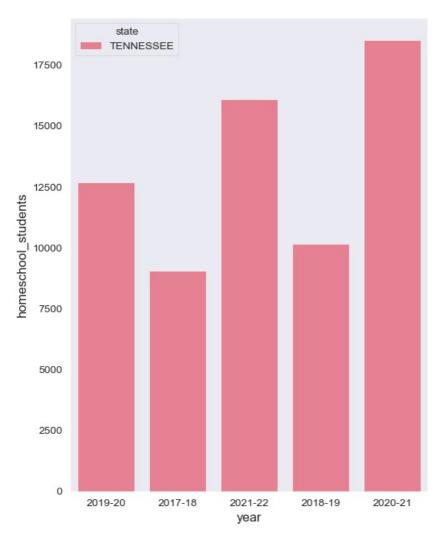
```
In [11]:
          get_state('PENNSYLVANIA')
Out[11]:
                       state
                               year homeschool_students
           95 PENNSYLVANIA 2019-20
                                               26810.0
           29 PENNSYLVANIA 2017-18
                                               25378.0
          161 PENNSYLVANIA 2021-22
                                               41217.0
          62 PENNSYLVANIA 2018-19
                                               25909.0
          128 PENNSYLVANIA 2020-21
                                               42766.0
          sns.set style("ticks")
In [12]:
          sns.set style("dark")
          sns.set_palette("husl")
          plt.figure(figsize=(6, 8))
          sns.barplot(x="year", y="homeschool_students",hue="state" ,data=get_state('PENNSYLVANIA'))
          plt.show()
```



```
In [13]: get_state('RHODE ISLAND')
                                  year homeschool_students
Out[13]:
                         state
           111 RHODE ISLAND 2020-21
                                                     3396.0
            78 RHODE ISLAND 2019-20
                                                     1931.0
            12 RHODE ISLAND 2017-18
                                                     1648.0
            45 RHODE ISLAND 2018-19
                                                      1731.0
           144 RHODE ISLAND 2021-22
                                                     3154.0
In [14]: sns.set_style("ticks")
sns.set_style("dark")
           sns.set_palette("husl")
           plt.figure(figsize=(6, 8))
sns.barplot(x="year", y="homeschool_students",hue="state" ,data=get_state('RHODE ISLAND'))
           plt.show()
```



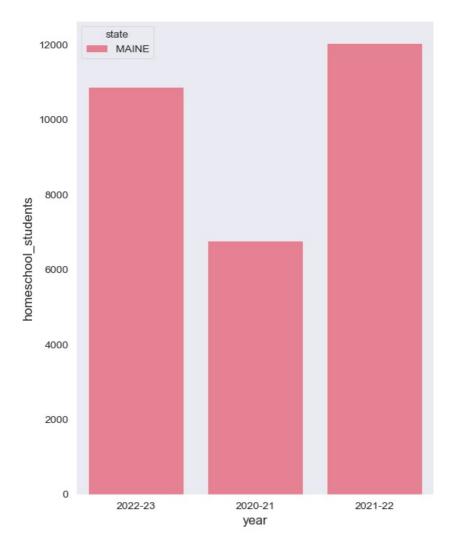
```
In [15]: get_state('TENNESSEE')
                               year homeschool_students
Out[15]:
                      state
            96 TENNESSEE 2019-20
                                                  12685.0
            30 TENNESSEE 2017-18
                                                  9069.0
           162 TENNESSEE 2021-22
                                                  16080.0
            63 TENNESSEE 2018-19
                                                  10161.0
           129 TENNESSEE 2020-21
                                                  18525.0
           sns.set_style("ticks")
sns.set_style("dark")
In [16]:
           sns.set_palette("husl")
           plt.figure(figsize=(6, 8))
sns.barplot(x="year", y="homeschool_students",hue="state" ,data=get_state('TENNESSEE'))
           plt.show()
```



```
In [17]:    def total_homeschool_students_per_state(state):
        statelocated=data_state[data_state['state']== str(state)]
        print("The total sum of homeschool_students for {} is of {}".format(state,statelocated['homeschool_students]
In [18]:    total_homeschool_students_per_state('CALIFORNIA')
        The total sum of homeschool_students for CALIFORNIA is of 249012.0
In [19]:    total_homeschool_students_per_state('PENNSYLVANIA')
        The total sum of homeschool_students for PENNSYLVANIA is of 162080.0
In [20]:    total_homeschool_students_per_state('RHODE ISLAND')
        The total sum of homeschool_students for RHODE ISLAND is of 11860.0
In [21]:    total_homeschool_students_per_state('TENNESSEE')
        The total sum of homeschool_students for TENNESSEE is of 66520.0
```

Maine only shared district-level data starting with the 2020-21 school year

```
In [22]: get_state('MAINE')
Out[22]:
               state
                       year homeschool_students
                                        10871.0
          187 MAINE 2022-23
          121 MAINE 2020-21
                                         6775.0
          154 MAINE 2021-22
                                        12044.0
          sns.set style("ticks")
In [23]:
          sns.set_style("dark")
          sns.set_palette("husl")
          plt.figure(figsize=(6, 8))
          sns.barplot(x="year", y="homeschool_students",hue="state" ,data=get_state('MAINE'))
          plt.show()
```



```
In [24]: total_homeschool_students_per_state('MAINE')
```

The total sum of homeschool_students for MAINE is of 29690.0

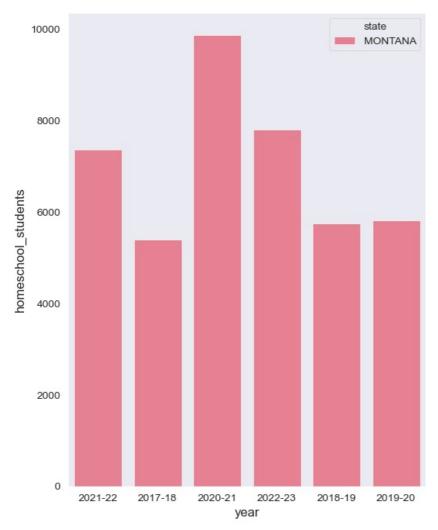
In [25]: # MONTANA, VERMONT and NEBRASKA

In [26]: get_state('MONTANA')

Out[26]:

	state	year	homeschool_students
156	MONTANA	2021-22	7368.0
24	MONTANA	2017-18	5390.0
123	MONTANA	2020-21	9868.0
189	MONTANA	2022-23	7799.0
57	MONTANA	2018-19	5743.0
90	MONTANA	2019-20	5815.0

```
In [27]: sns.set_style("ticks")
    sns.set_style("dark")
    sns.set_palette("husl")
    plt.figure(figsize=(6, 8))
    sns.barplot(x="year", y="homeschool_students",hue="state" ,data=get_state('MONTANA'))
    plt.show()
```



Grouped by state to know the highest state with enrollment and the lowest state

state	
DISTRICT OF COLUMBIA	4235.0
RHODE ISLAND	11860.0
WYOMING	18082.0
KANSAS	20260.0
VERMONT	20437.0
NORTH DAKOTA	21725.0
DELAWARE	22026.0
NEW HAMPSHIRE	23621.0
HAWAII	25797.0
MAINE	29690.0
SOUTH DAKOTA	38316.0
MONTANA	41983.0
COLORADO	59500.0
MASSACHUSETTS	64765.0
TENNESSEE	66520.0
NEW MEXICO	67315.0
NEBRASKA	67593.0
MISSISSIPPI	134301.0
MINNESOTA	144096.0
ARKANSAS	154773.0
WISCONSIN	154987.0
SOUTH CAROLINA	155294.0
LOUISIANA	160000.0
PENNSYLVANIA	162080.0
WASHINGTON	163713.0
KENTUCKY	188024.0
MARYLAND	196616.0
ОНЮ	243599.0
NEW YORK	243683.0
CALIFORNIA	249012.0
VIRGINIA	315343.0
GEORGIA	479064.0
FLORIDA	743022.0

In [] •

home_school_district

- lea_name: Official name of the local education agency (school district) as recorded by the National Center for Education Statistics
- lea_id: official id for the local education agency (school district) created by the National Center for Education Statistics
- state: state name
- year: Reflects the academic school year. Homeschooling counts are sometimes collected as point-in-time figures at different moments in the year, depending by state and district.
- homeschool_students: The number of home-schooling students reported by the state, under as many legal ways to home-school as it was possible for the Post to collect

```
import pandas as pd
data_district = pd.read_csv('home_school_district.csv')
data_district=data_district.sort_values(by=['state'],ascending=True)
data_district
```

Out[32]:		lea_name	lea_id	state	year	homeschool_students
	0	Alma School District	502250	AR	2017-18	142.0
	945	Mulberry/Pleasant View Bi-County Schools	510290	AR	2021-22	71.0
	944	Mulberry School District	510290	AR	2020-21	73.0
	943	Mulberry School District	510290	AR	2019-20	54.0
	942	Mulberry School District	510290	AR	2018-19	37.0
	22986	Platte County School District #2	5603180	WY	2018-19	9.0
	22987	Platte County School District #2	5603180	WY	2019-20	0.0
	22988	Platte County School District #2	5603180	WY	2020-21	21.0
	23009	Sublette County School District #1	5604860	WY	2017-18	56.0
	23063	Washakie County School District #2	5605820	WY	2017-18	0.0
	37674	rows × 5 columns				

```
In [33]: data_district.info()
```

<class 'pandas.core.frame.DataFrame'>
Index: 37674 entries, 0 to 23063
Data columns (total 5 columns):

Column Non-Null Count Dtype

0 lea_name 37637 non-null object
1 lea_id 37639 non-null object
2 state 37674 non-null object
3 year 37674 non-null object
4 homeschool_students 37192 non-null float64

dtypes: float64 $\overline{(1)}$, object(4) memory usage: 1.7+ MB

In [34]: data_district.describe()

Out[34]: homeschool_students

count	37192.000000
mean	117.036701
std	402.135777
min	0.000000
25%	12.000000
50%	35.000000
75%	89.000000
max	13641.000000

In [35]: data_district.describe(include='0')

Out[35]:

	lea_name	lea_id	state	year
count	37637	37639	37674	37674
unique	6660	6738	30	6
top	Perry Local	502250	CA	2021-22
freq	18	6	5355	6518

In [36]: data district.shape

Out[36]: (37674, 5)

In [37]: data_district=data_district.dropna()
data_district

```
lea_name
                                                              lea_id state
                                                                               year homeschool_students
Out[37]:
                0
                                        Alma School District
                                                             502250
                                                                        AR 2017-18
                                                                                                       142 0
              945 Mulberry/Pleasant View Bi-County Schools
                                                             510290
                                                                        AR 2021-22
                                                                                                        71.0
              944
                                     Mulberry School District
                                                             510290
                                                                        AR 2020-21
                                                                                                        73.0
              943
                                     Mulberry School District
                                                             510290
                                                                        AR 2019-20
                                                                                                        54.0
              942
                                     Mulberry School District
                                                             510290
                                                                        AR 2018-19
                                                                                                        37.0
            22986
                              Platte County School District #2 5603180
                                                                       WY 2018-19
                                                                                                        9.0
                                                                                                         0.0
            22987
                              Platte County School District #2 5603180
                                                                             2019-20
            22988
                              Platte County School District #2 5603180
                                                                             2020-21
                                                                                                        21.0
            23009
                            Sublette County School District #1 5604860
                                                                             2017-18
                                                                                                        56.0
            23063
                          Washakie County School District #2 5605820
                                                                                                         0.0
```

37167 rows × 5 columns

```
In [38]: data_district.shape
Out[38]: (37167, 5)
```

Data Transformation

```
In [39]: data_district['state'].unique()
         array(['AR', 'CA', 'CO', 'DC', 'DE', 'FL', 'GA', 'HI', 'KS', 'KY', 'LA', 'MA', 'MD', 'ME', 'MN', 'MS', 'ND', 'NH', 'NM', 'NY', 'OH', 'PA', 'RI', 'SC', 'SD', 'TN', 'VA', 'WA', 'WI', 'WY'], dtype=object)
Out[39]:
          district_state={'AR':'ARKANSAS',
In [40]:
                                    'CA': 'CALIFORNIA',
                                    'CO':'COLORADO'
                                    'DC': 'DISTRICT OF COLUMBIA',
                                    'DE': 'DELAWARE',
                                    'FL': 'FLORIDA',
                                    'GA': 'GEORGIA',
                                    'HI': 'HAWAII',
                                    'KS': 'KANSAS'
                                    'KY': 'KENTUCKY'
                                    'LA': 'LOUISIANA',
                                    'MA': 'MAINE'
                                    'MD':'MARYLAND'
                                    'ME': 'MASSACHUSETTS',
                                    'MN': 'MINNESOTA'
                                    'MS':'MISSISSIPPI'
                                    'ND': 'NORTH DAKOTA'
                                    'NH': 'NEW HAMPSHIRE',
                                    'NM':'NEW MEXICO',
                                    'NY':'NEW YORK',
                                    'OH':'OHIO'
                                    'PA': 'PENNSYLVANIA',
                                    'RI':'RHODE ISLAND'
                                    'SC': 'SOUTH CAROLINA',
                                    'SD': 'SOUTH DAKOTA',
                                    'TN': 'TENNESSEE',
                                    'VA':'VIRGINIA'
                                    'WA': 'WASHINGTON',
                                    'WI': 'WISCONSIN',
                                    'WY':'WYOMING
          data_district['state'] = data_district['state'].replace(district_state)
          A value is trying to be set on a copy of a slice from a DataFrame.
          Try using .loc[row_indexer,col_indexer] = value instead
          See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user guide/indexing.html#ret
          urning-a-view-versus-a-copy
           data_district['state'] = data_district['state'].replace(district_state)
In [41]: data district
```

```
lea_name
                                                          lea_id
Out[41]:
                                                                       state
                                                                                 year homeschool students
               0
                                     Alma School District 502250 ARKANSAS 2017-18
             945 Mulberry/Pleasant View Bi-County Schools 510290 ARKANSAS 2021-22
                                                                                                       71.0
             944
                                  Mulberry School District 510290 ARKANSAS 2020-21
                                                                                                       73.0
             943
                                  Mulberry School District
                                                         510290 ARKANSAS 2019-20
                                                                                                       54.0
             942
                                  Mulberry School District
                                                         510290 ARKANSAS 2018-19
                                                                                                       37.0
           22986
                            Platte County School District #2 5603180 WYOMING 2018-19
                                                                                                        9.0
           22987
                            Platte County School District #2 5603180
                                                                  WYOMING 2019-20
                                                                                                        0.0
           22988
                            Platte County School District #2 5603180
                                                                  WYOMING 2020-21
                                                                                                       21.0
           23009
                          Sublette County School District #1 5604860
                                                                  WYOMING 2017-18
                                                                                                       56.0
           23063
                        Washakie County School District #2 5605820
                                                                  WYOMING 2017-18
                                                                                                        0.0
```

37167 rows × 5 columns

```
In [42]: data_district.to_csv("data_district.csv",index=False)
In [43]: data_state['state'].unique()
          Out[43]:
                   'RHODE ISLAND',
                                     'SOUTH CAROLINA', 'SOUTH DAKOTA', 'TENNESSEE',
                   'VERMONT', 'VIRGINIA', 'WASHINGTON', 'WISCONSIN', 'WYOMING'],
                  dtype=object)
In [44]: data_state['state'].nunique()
Out[44]:
In [45]: data_district['state'].unique()
Out[45]: array(['ARKANSAS', 'CALIFORNIA', 'COLORADO', 'DISTRICT OF COLUMBIA', 'DELAWARE', 'FLORIDA', 'GEORGIA', 'HAWAII', 'KANSAS', 'KENTUCKY', 'LOUISIANA', 'MAINE', 'MARYLAND', 'MASSACHUSETTS', 'MINNESOTA',
                    'MISSISSIPPI', 'NORTH DAKOTA', 'NEW HAMPSHIRE',
                                                                           'NEW MEXICO',
                   'NEW YORK', 'OHIO', 'PENNSYLVANIA', 'RHODE ISLAND', 'SOUTH CAROLINA', 'SOUTH DAKOTA', 'TENNESSEE', 'VIRGINIA',
                   'WASHINGTON', 'WISCONSIN', 'WYOMING'], dtype=object)
```

Absence of MONTANA, VERMONT and NEBRASKA in home school district confirmed

```
In [46]: data_district['state'].nunique()
Out[46]: 30
```

Grouped by state to know the highest district with enrollment and the lowest state

```
In [47]: STATE_AREA=(data_district
    .groupby(['state'])
    .agg(SUM_ESTIMATE_HOMESCHOOL_STUDENTS_DISTRICT_VALUE=('homeschool_students','sum'))
).sort_values(by=['SUM_ESTIMATE_HOMESCHOOL_STUDENTS_DISTRICT_VALUE'],ascending=True)
STATE_AREA
```

state	
DISTRICT OF COLUMBIA	4235.0
RHODE ISLAND	11860.0
WYOMING	18082.0
KANSAS	20260.0
NEW HAMPSHIRE	21518.0
NORTH DAKOTA	21725.0
DELAWARE	22026.0
HAWAII	25797.0
MASSACHUSETTS	29423.0
SOUTH DAKOTA	38314.0
COLORADO	59500.0
NEW MEXICO	63884.0
MAINE	64765.0
TENNESSEE	65883.0
MISSISSIPPI	134129.0
MINNESOTA	144096.0
WISCONSIN	149976.0
ARKANSAS	154733.0
SOUTH CAROLINA	155294.0
LOUISIANA	159993.0
PENNSYLVANIA	162070.0
WASHINGTON	163713.0
KENTUCKY	188024.0
MARYLAND	196616.0
NEW YORK	243683.0
ОНЮ	246460.0
CALIFORNIA	248183.0
VIRGINIA	315343.0
GEORGIA	479288.0
FLORIDA	743022.0

```
In [48]: def get_district_state(state):
    return data_district['state'] == str(state)]
```

State with the highest enrollment is Florida

```
In [49]: Florida_district = get_district_state('FLORIDA')
Florida_district
```

Out[49]:		lea_name	lea_id	state	year	homeschool_students
	1624	Leon	1201110	FLORIDA	2020-21	2007.0
	1619	Lee	1201080	FLORIDA	2021-22	3698.0
	1623	Leon	1201110	FLORIDA	2019-20	1650.0
	1622	Leon	1201110	FLORIDA	2018-19	1801.0
	1621	Leon	1201110	FLORIDA	2017-18	2026.0
	1754	St. Johns	1201740	FLORIDA	2019-20	2224.0
	1753	St. Johns	1201740	FLORIDA	2018-19	1974.0
	1752	St. Johns	1201740	FLORIDA	2017-18	1745.0
	1751	Seminole	1201710	FLORIDA	2022-23	4202.0
	1758	St. Lucie	1201770	FLORIDA	2017-18	1414.0

402 rows × 5 columns

The highest enrollment in Florida district and the local education agency name (lea name)

Out [52]: SUM_ESTIMATE_HOMESCHOOL_STUDENTS_DISTRICT_VALUE

lea_name	
Franklin	169.0
Glades	398.0
Liberty	454.0
Lafayette	558.0
Hamilton	600.0
Broward	45036.0
Palm Beach	45531.0
Orange	46317.0
Duval	48072.0
Hillsborough	55389.0

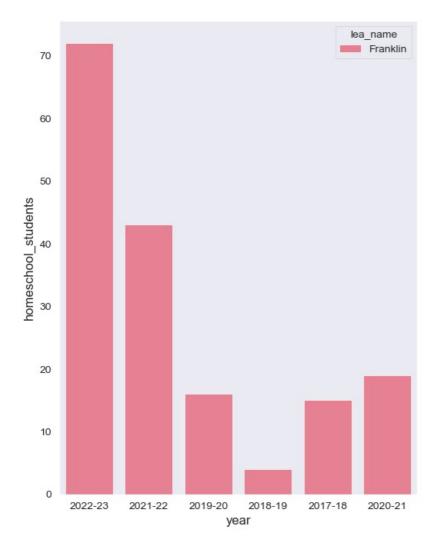
68 rows × 1 columns

local education agency (lea) with the lowest enrollment

```
In [53]: Franklin_lea=Florida_district[Florida_district['lea_name'] == 'Franklin']
Franklin_lea
```

```
lea_name
                            lea_id
                                       state
                                                year homeschool_students
Out[53]:
           1518
                  Franklin 1200570 FLORIDA 2022-23
                                                                     72 0
           1517
                  Franklin 1200570 FLORIDA 2021-22
                                                                     43.0
                  Franklin 1200570 FLORIDA 2019-20
           1515
                                                                     16.0
                  Franklin 1200570 FLORIDA 2018-19
           1514
                                                                      4.0
           1513
                  Franklin 1200570 FLORIDA 2017-18
                                                                     15.0
           1516
                  Franklin 1200570 FLORIDA 2020-21
                                                                     19.0
```

```
In [54]: sns.set_style("ticks")
    sns.set_style("dark")
    sns.set_palette("husl")
    plt.figure(figsize=(6, 8))
    sns.barplot(x="year", y="homeschool_students",hue="lea_name" ,data=Franklin_lea)
    plt.show()
```

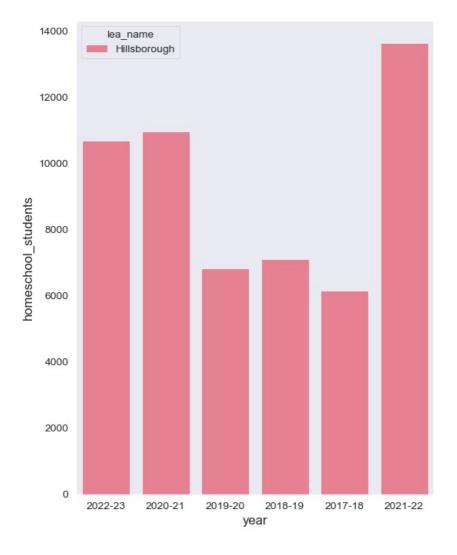


local education agency (lea) with the highest enrollment

```
In [55]: Hillsborough_lea=Florida_district[Florida_district['lea_name'] == 'Hillsborough']
Hillsborough_lea
Out[55]: lea_name lea_id state year homeschool_students
```

]:		lea_name	lea_id	state	year	homeschool_students
	1578	Hillsborough	1200870	FLORIDA	2022-23	10680.0
	1576	Hillsborough	1200870	FLORIDA	2020-21	10964.0
	1575	Hillsborough	1200870	FLORIDA	2019-20	6837.0
	1574	Hillsborough	1200870	FLORIDA	2018-19	7117.0
	1573	Hillsborough	1200870	FLORIDA	2017-18	6150.0
	1577	Hillsborough	1200870	FLORIDA	2021-22	13641.0

```
In [56]:
    sns.set_style("ticks")
    sns.set_style("dark")
    sns.set_palette("husl")
    plt.figure(figsize=(6, 8))
    sns.barplot(x="year", y="homeschool_students",hue="lea_name" ,data=Hillsborough_lea)
    plt.show()
```



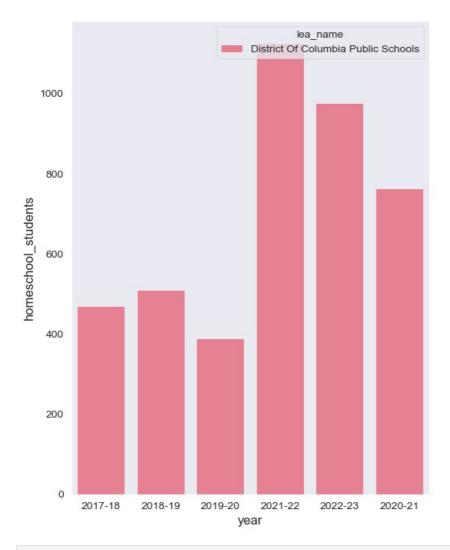
State with the lowest enrollment is District of Columbia

plt.figure(figsize=(6, 8))

plt.show()

```
District_of_Columbia_district = get_district_state('DISTRICT OF COLUMBIA')
District_of_Columbia_district
In [57]:
                                                    lea id
                                                                                      year homeschool_students
Out[57]:
                                       lea name
                                                                             state
           31233 District Of Columbia Public Schools
                                                  1100030
                                                           DISTRICT OF COLUMBIA
                                                                                   2017-18
                                                                                                           469.0
           31234 District Of Columbia Public Schools 1100030
                                                          DISTRICT OF COLUMBIA 2018-19
                                                                                                           510.0
           31235 District Of Columbia Public Schools 1100030
                                                          DISTRICT OF COLUMBIA 2019-20
                                                                                                           389.0
           31237 District Of Columbia Public Schools
                                                  1100030
                                                           DISTRICT OF COLUMBIA
                                                                                   2021-22
                                                                                                          1126.0
           31238 District Of Columbia Public Schools 1100030
                                                           DISTRICT OF COLUMBIA 2022-23
                                                                                                           977.0
           31236 District Of Columbia Public Schools 1100030 DISTRICT OF COLUMBIA 2020-21
                                                                                                           764.0
           sns.set_style("ticks")
In [58]:
            sns.set_style("dark")
            sns.set_palette("husl")
```

sns.barplot(x="year", y="homeschool_students",hue="lea_name" ,data=District_of_Columbia_district)



In []:

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