1. Import files
2. Set column names to lowercase
3. Filter r_code values
4. Column renaming
5. Examine 'type' column
6. Narrow down application type to 1 and 2
7. Convert datetimes to all be the same format
8. Fill in missing in award_notice_date with budget_start
9. Check for NAs, etc.
10. Fill in with 'Missing'
11. Fill with 0
12. Columns to delete
13. Drop NA
14. Check for missing values again
15. Get to know data
16. Change id, type and fy to string
17. Clean up the list of TRA research project code by removing hyphen
18. Set TRA to corresponding R codes. TRA is breakthrough, but because they apply under R01, have to separate the R01 that are actually breakthrough
19. Map the categories to the research projects
20. Make sure that budget year is greater or equal to 2000 and same with award_notice_date can be 2019 if budget year is 2000
21.Check for duplicates on 'full_project_num' and 'project_title'
22. Delete duplicates on 'full_project_num'
23. Make ic_name title case
24. Get a list of unique ic_name column
25. Check for near matches to clean up/merge
26. Change ampersand to word 'and' and correct for spacing
27.Check on unique values in ic_name again
28. Further clean up ic_names
29. Map/collapse nearly matching ic_names
30. Get combined length of years and months under combined_length_of_time
31.Turn combined_length_of_time to only months instead of years, months
32. Per r_code_category count
33. Concatenate all of the original cleaned dfs
34. Count of individual r_code
35.Concatenate r_code_category
36. Get average of r_code_category per group of years
37. Get total counts for r_code_category 2000-10, 2011-21, and 22
38. Make first packed bubble chart with proportional radii
39. Generate packed circles for 2011-2021 second bubble chart
40. Generate packed bubble circles for viz 22022
41. Generate circular barplot
42. Generated median project length for each r_code_category

43. Get number of projects based on r_code_category's project lengths
44.Double check number per r_code_category against total per r_code_category
45.Get percentage per r_code_category per project length
46. Make quadrant plot