FinTech Unit 6 Homework: Grading Rubric

Criteria	Ratings			
Rental Analysis • Number of housing units per year calculated. • Bar chart visualization of rental analysis results. **Average Housing Costs in San Francisco per Year** • Average gross rents and sales prices per year calculated . • Line plots for gross rents and sales prices per year generated.	**20 Points Mastery** • Completed 4 out of 4 requirements • Code runs without error and produces the assigned results • Code accounts for all possible scenario • Code is free of bugs	**19 > 16 Points Approaching Mastery** • Completed 3 out of 4 of requirements • Code runs without error • Code produces results as expected 80% of the time	**16 > 14 Points Progressing** • Completed 2 out of 4 requirements • Code runs without error • Code produces results, but not necessarily the correct results	**14 > 0 Emerging** • Completed 1 or none out of the 4 requirements • No submission • Code runs with error
Average Prices by Neighborhood • sales_price_per_sqr_foot and gross_rent calculated for each year. • sales_price_per_sqr_foot and gross_rent per year visualized on hvplot line plots. **Top 10 Most Expensive Neighborhoods** • DataFrame created with mean house values by neighborhood per year. • average_house_value mean visualized per year, neighborhood dropdown selector added.	**20 Points Mastery** • Completed 4 out of 4 requirements • Code runs without error and produces the assigned results • Code accounts for all possible scenario • Code is free of bugs	**19 > 16 Points Approaching Mastery** • Completed 3 out of 4 requirements • Code runs without error • Code produces results as expected 80% of the time	**16 > 14 Points Progressing** • Completed 2 out of 4 requirements • Code runs without error • Code produces results, but not necessarily the correct results	**14 > 0 Emerging** • Completed 1 or none out of the 4 requirements • No submission • Code runs with error
Comparing Cost to Purchase Versus Rental Income • Hvplot used to generate bar chart comparing sales price and gross rents side by side • neighborhood dropdown selector added. **Neighborhood Map** • Create a DataFrame joining the neighborhood location data with rent and sales data. • Generate an interactive map with average prices per neighborhood.	**15 Points Mastery** • Completed 4 out of 4 requirements • Code runs without error and produces the assigned results • Code accounts for all possible scenario • Code is free of bugs	**14 > 11 Points Approaching Mastery** • Completed 3 out of 4 requirements • Code runs without error • Code produces results as expected 80% of the time	**11 > 9 Points Progressing** • Completed 2 out of 4 requirements • Code runs without error • Code produces results, but not necessarily the correct results	**9 > 0 Emerging** • Completed 1 or none out of the 4 requirements • No submission • Code runs with error
Dashboard • Rental analysis code ported over into self contained functions. • Interactive dashboard encompassing each functional visualization.	**15 Points Mastery** • Completed 2 out of 2 requirements • Code runs without error and produces the assigned results • Code accounts for all possible scenario • Code is free of bugs	**14 > 11 Points Approaching Mastery** • Completed 1 out of 2 requirements • Code runs without error • Code produces results as expected 80% of the time	**11 > 9 Points Progressing** • Completed fewer than 1 out of 2 requirements • Code runs without error • Code produces results, but not necessarily the correct results	**9 > 0 Emerging** • Completed 0 out of 2 requirements • No submission • Code runs with error
Coding Conventions/Formatting	**10 Points Mastery** • Imports are at the top of the file, just after any module comments and docstrings, and before module globals and constants. • Function names are lowercase, with words separated by underscores • Variable names follow the same convention as function names. • Code follows (DRY) principals, no repetition, maintainable and highly reusable code.	**9 Points Approaching Mastery** • Variable names are specific and descriptive of the information held by the variable • Imports are within the top of file	**8 Points Progressing** • Code lacks proper indentation and length convention - Limit all lines to a maximum of 79 characters. • Variable names are generic and not descriptive of the information held by the variable • Imports and files are located in a non-standard location	**8 > 0 Emerging** • Code is excessively lengthy • Variable names are missing or lacking any descriptive information • Import and files are not loaded
Deployment/Submission	**10 Points Mastery** • Repository cloned to local machine • Files added to the repo via the command line • Appropriate commit messages	**9 Points Approaching Mastery** • Repository cloned to local machine • Files added to repo via the command line	**8 Points Progressing** • Repository created on GitHub • Files added manually on GitHub	**8 > 0 Emerging** • No Submission • Submission via incorrect format
Documentation/Comments	**10 Points Mastery** • Code is well commented with concise, relevant notes	**9 Points Approaching Mastery** • Code is commented and mostly understandable to an outside user	**8 Points Progressing** • Code has comments, but they are not understandable to an outside user	**8 > 0 Emerging** • Code is not commented
Cost Analysis (Optional Challenge) • Create a parallel coordinates plot of most expensive neighborhoods in San Francisco per year. • Create a parallel categories plot of most expensive neighborhoods in San Francisco per year. • Create a sunburst plot of most expensive neighborhoods in San Francisco per year.	**30 Points Mastery** • Completed 3 out of 3 requirements • Code runs without error and produces the assigned results • Code accounts for all possible scenario • Code is free of bugs	**20 Points Approaching Mastery** • Completed 2 out of 3 requirements • Code runs without error • Code produces results as expected 80% of the time	**10 Points Progressing** • Completed 1 out of 3 requirements • Code runs without error • Code produces results, but not necessarily the correct results	**0 Emerging** • Completed 0 out of 3 requirements • No submission • Code runs with error

TOTAL POINTS