**Summary of Functional Forms Involving Logarithms**

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| **Model** | **Dependent****Variable** | **Independent****Variable** | **Interpretation****of** $β\_{1}$ |
|  level-level | y | x | $$∆y=β\_{1}∆\_{x}$$ |
|  level-log | y | log(x) | $$∆y=\left(β\_{1}/100\right)\%∆x$$ |
|  log-level | log(y) | x | %$∆y=(100β\_{1})∆x$ |
|  log-log | log(y) | log(x) | %$∆y=β\_{1}$%$∆x$ |
|  log-dummy | log(y) | dum | 0→1 means the impact of dummy (treatment) is 100×$\left[e^{β\_{1}}-1\right]$% |