



Bootstrap is a series of research-based curricula that spans middle school, high school and beyond. It includes modules for Algebra, Physics, Data Science, CS Principles, and CS1 courses.



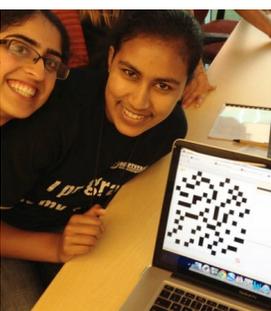
Because CS4All means *all* students

Bootstrap:1, our introductory course, can be embedded into an intro CS or mainstream algebra class, taught by a teacher with no CS background. By integrating algebra with computing, Bootstrap:1 fosters student growth in both subjects while helping schools meet logistical and staffing challenges. Using Bootstrap:1 as part of a standard algebra class ensures equitable access: since every student takes algebra, Bootstrap:1 reaches *all* students – not just those who self-select by race, gender, or income. **43% of Bootstrap students are young women, and 46% identify as African-American or Latino**



Because pedagogy matters

Teaching problem solving is about more than giving kids problems to solve. A good software tool only gets you so far. Our unique pedagogical approach empowers students how to frame and solve their own problems, going beyond tinkering and guess-and-check. Our Bootstrap:2 module extends this pedagogy to data structures, event-based programming, and model-view-controller architectures. Our other modules build from Bootstrap:1 to sophisticated modeling in Physics, and a data-first approach to CS Principles and Lightweight Data Science.



Because teachers need tools based on research

Bootstrap is based on the more than 20 years of research, building on the acclaimed “Program by Design” curriculum, which is used at colleges and universities across the globe. We've published real results, showing significant improvement in student algebra performance. And we are proud to work alongside the National Council of Teachers of Mathematics, the American Academy of Physics Teachers, the American Modeling Teachers Association, and groups like CSNYC, Code.org, Exploring Computer Science, the National Center for Women & IT, the College Board and the National Science Foundation to create a collaborative learning community.

