

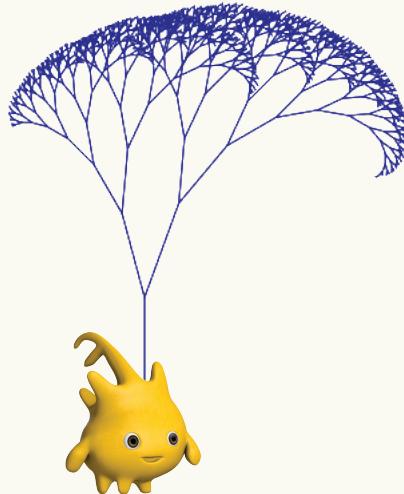
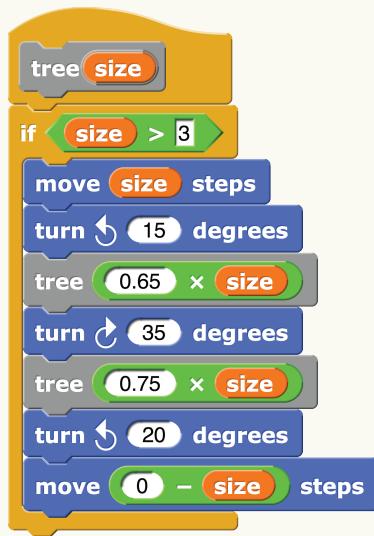


The Beauty and Joy of Computing

An AP CS: Principles Curriculum

FRABJOUS CS: Framing a Rigorous Approach to Beauty and Joy for Outreach to Underrepresented Students in Computing at Scale

- Programming in



Snap! supports recursion, higher order functions, and OOP. Program in the browser; no installation required.
(Inspired by Scratch, from the MIT Media Lab.)

- Social implications and context via
- Topics include abstraction, graphics, applications, programming paradigms, concurrency, algorithms, games, recursion, privacy, copyright, game theory, higher order functions, artificial intelligence, limitations of computing, and the future of computing.

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<http://bjc.berkeley.edu>

- Six-week summer preparation for 100 high school teachers who then teach BJC in their schools: <http://bit.ly/BJC2014>
- Focus on underrepresented students.
- Visual programming language allows technically rigorous course with high student retention.

