



The Beauty and Joy of Computing

A Creative and engaging start to learning computer science.

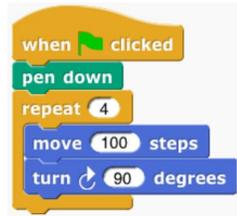


What is BJC?

The Beauty and Joy of Computing (BJC) is a computer science curriculum for high school students. BJC emphasizes the joy and complexity of creating visual computer programs and applications. BJC is balanced with critical reflection on the impacts of new computing technology. BJC is an AP Computer Science Principles course supported by the NSF and endorsed by the College Board and code.org.

Snap!, a Visual Programming Language

BJC uses Snap! (based on Scratch), one of the friendliest programming languages. It is purely graphical, which means programming involves simply dragging blocks around and building bigger blocks out of smaller blocks. Snap! features first class lists and first class procedures. These capabilities make Snap! suitable for high school students.



BJC Outreach

BJC is in 100+ high schools across the US and in Europe, Australia and Asia. BJC has been adopted by TEALS nationwide and the New York City Department of Education, the largest school district in the country. BJC is learned by thousands of students online through edX.

BJC Curriculum

BJC follows the AP CS Principles framework with a programming-heavy focus and deep exploration into social implications of computing.

Topics: The Big Ideas of Computing

Creativity, Abstraction, Data and Information, Algorithms, the Internet, Higher-Order Functions, Recursion (optional), and the Global Impact of Computing (privacy, copyright, cybersecurity, censorship)

- All course materials are free.
- Project-centric creativity and design thinking
- Collaboration and pair programming
- Culturally relevant topics
- Pacing guides, online resources, shared course materials
- Expansive community of practice
- Also available on edX for classroom use.

Professional Development

We offer a 3-week PD for high school teachers from all backgrounds (no prior CS experience necessary). One week online, one week face-to-face and a final online week for wrap-up. Teachers whose schools commit to offer BJC the following year are encouraged to sign up.

bjc.berkeley.edu | contact@bjc.berkeley.edu |    @cspbjc





Learn to Code & Become an
AP Computer Science Principles Teacher!
Teach the Beauty and Joy of Computing Curriculum



Why learn to teach the Beauty and Joy of Computing (BJC)?

- You'll teach **rigorous yet accessible content** approved by the College Board as an Advanced Placement (AP) Computer Science Principles (CSP) course.
- **No Computer Science experience required** for teachers or students.
- **BJC professional development** provides 40 hours of face-to-face support and flexible online learning before the face-to-face week. We provide a certificate of completion for 60 CEUs.
- The **Snap! visual programming language** and **research-based curriculum** prepare students for the new AP CSP exam, however attendees are not required to offer BJC as an AP course.
- **BJC is designed to attract a broad population of students**, including females and underrepresented minorities, balancing programming and social implications.

The Beauty and Joy of Computing Professional Development

- The Beauty and Joy of Computing professional development is **endorsed by the College Board** and serves as an **alternative to attending an AP Institute**.
- We offer **hybrid online/face-to-face professional development** opportunities during the summers.
- You also **may be eligible to receive a stipend**.

How can I sign up?

- Complete the BJC PD Interest form at <http://bjc.link/pdinterest18>.

We will contact you as soon as we have dates/locations confirmed for 2018.

For more info, see bjc.berkeley.edu -- *click on PD (non-NYC)*

Questions: pd@bjc.berkeley.edu (include your name, school name, and location)

The **Beauty and Joy of Computing** curriculum, co-developed by University of California, Berkeley & Education Development Center, Inc, is being field-tested in New York City public schools in partnership with the NYCDOE and CSNYC with funding from the National Science Foundation. NC State University is scaling BJC PD nationally.

