

Lesson 3: Your First Spark Application

3.3 Case Study: DonorsChoose.org



How Can Spark Help?

- Interactive REPL
- Rapid computation (especially aggregates) on large amounts of data
- High level abstractions for querying data
- “Condense” data for easier local exploration and visualization



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See what great teachers need for their students.

The collage consists of nine images arranged in a 3x3 grid, each representing a different type of classroom project or activity:

- Art:** A student wearing glasses and a grey sweatshirt is focused on a piece of art, possibly painting or drawing.
- Science:** A student in a pink shirt is looking through a microscope, illuminated by a bright light.
- Kickstart a teacher:** A teacher with blonde hair is smiling alongside two young students in a classroom setting.
- Books:** A student wearing glasses is reading a book titled "Nate the Great".
- Field Trips:** Two students are in a white canoe on a body of water, one holding a paddle.
- Team Sports:** Three young children, two boys and one girl, are posing together outdoors in maroon t-shirts with "ROCKERS" printed on them.
- Math:** A student in a blue shirt is interacting with a red electronic calculator or cash register.
- Match Offers:** Two students are smiling; one is holding up a white sign with a large green "X2" on it.
- Search:** A group of students are holding up colorful, patterned items, with a search bar graphic overlaid showing the text "crafts" and a magnifying glass icon.

At the top of the collage, there is a navigation bar with a "Zip code" input field, a "Find projects near me" button, and a map of the western United States. The map shows state boundaries, city names like Salt Lake City, Denver, and Sacramento, and a north arrow. Below the map, a copyright notice reads "Map data ©2015 Google, INEGI Terms of Use."



<http://data.donorschoose.org/open-data/overview/>

