

IPRO330

Science Fair Extravaganza

<http://sciencefair.math.iit.edu>



Problem definition:

Chicago Public School (CPS) students encountered problems including

- Poor project quality
- Deficient presentation skills
- Insufficient data analysis skills
- Lacking basic laboratory techniques for completing science fair projects

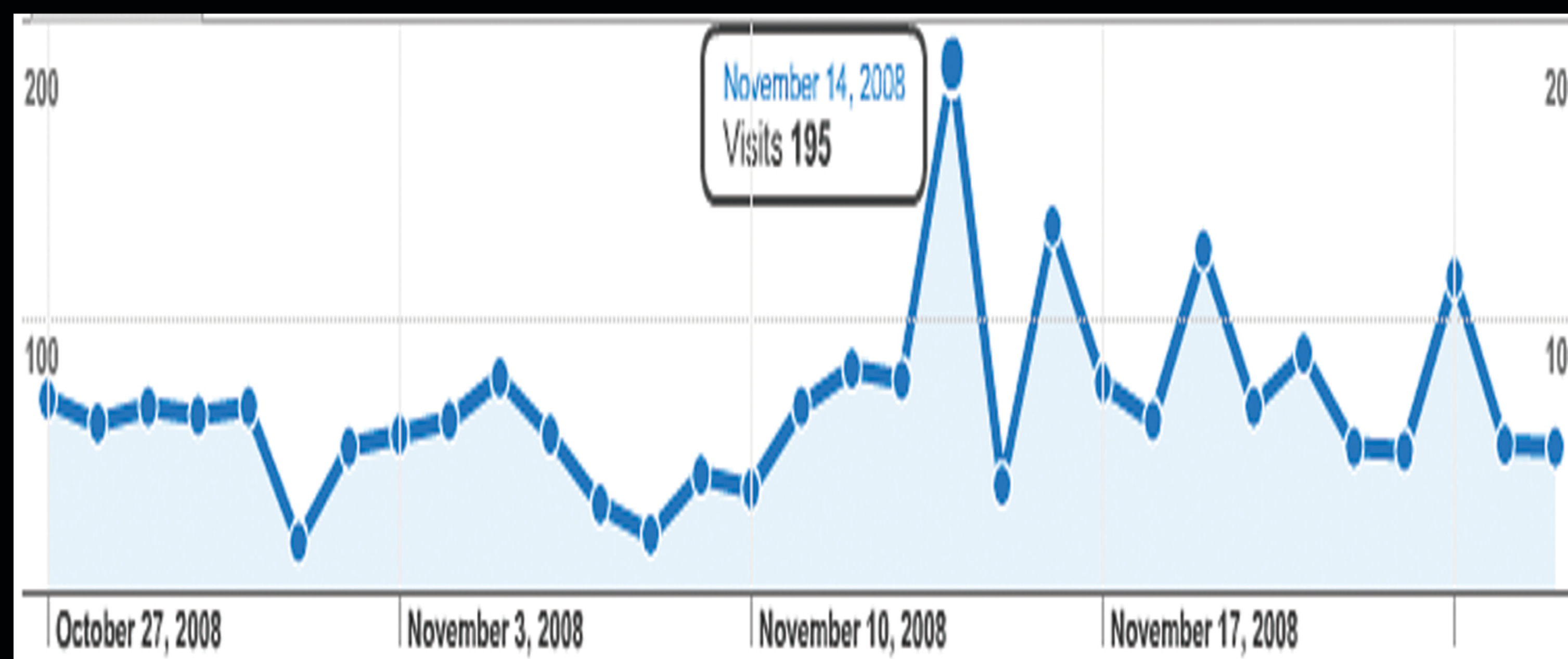
Objective:

- Increase high school student interest in science and math education
- Provide analytical engines for students to compete in science fairs

Approaches used by the team:

- The team is divided into two subgroups: one for promoting the websites to CPS groups, the other one for improving website qualities
- Efforts were emphasized on obtaining feedback from CPS groups and science fair coordinators

Google analytics



Content Group

Group members : Xuan Kang, Brianna Elg, Andrew Mehr*, Mark Rhodes, Joshua Tate (*: indicate the team leader)

Improving the quality of the website:

- Reviewed and re-categorized projects
- Developed general, behavioral science and engineering lab note-taking guides and several laboratory technique guides
- Created eight new projects for CPS students
- Researched keywords and other website components to promote the website in the Google search engine
- Learned and updated the website with various contents

Communication Group

Group members : Kyle Gay, Sam Nemanich*, Yongju Jo & Rocio Diaz

Contact CPS and professional organizations:

- Significantly improved Google analytics hit rate and reading duration
- Worked closely with Math and Science Education Program, IPRO 332 & 320 and Camras group to promote website
- Participated in LabFest and judged at more than 10 science fairs to spread the words about the website
- Made promotional flyers and presented before CPS teachers and 12+ science fair coordinators
- Improved the design and layout of the website



Current Goal

- Content Group:
 - Improve available projects
 - Create lab-note taking guide and lab technique guide
 - Enhance website layout
- Communication Group
 - Promote the website to CPS groups and other organizations

Future Goal

- Make the website more professional
- Add more interactive guides for students to reference
- Create an IDEA GENERATOR
- Further interact with CPS groups and help them at science fairs
- Collaborate more effectively with other universities



About us:

- The team is composed of students from different disciplines of study
- The team is committed to make a difference in promoting high school science and math education through science fair projects
- Overall team leaders: Rocio Diaz & Joshua Tate

Visit us at:
<http://sciencefair.math.iit.edu/>
 Or email:
sciencefair.extravaganza@gmail.com

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 Science Fair Program for
 Chicago Public Schools

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Science Fair information and
 support for CPS students,
 teachers and parents!