

What is FIRST LEGO LEAGUE?



By Sanjay and Arvind Seshan

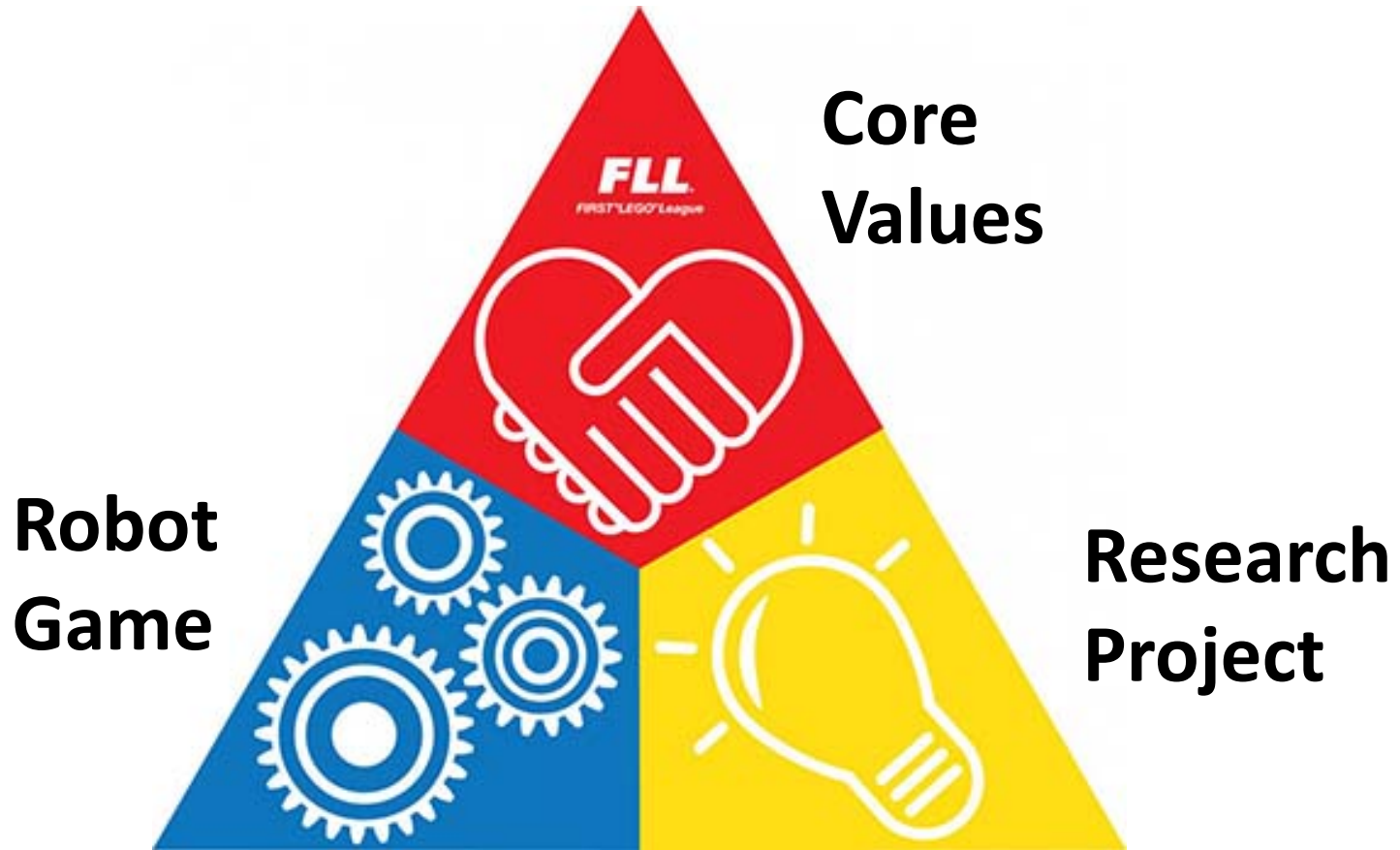


FIRST LEGO League Overview

- International competition organized by FIRST
- For kids ages 9-14 in North America and 9-16 elsewhere
- Each year has a theme
- About 29,000 students in over 80 countries participate in FLL
- Runs approximately from September – December (or longer if you qualify for State and International-level Championships)



Three Parts to FIRST LEGO League



Robot Game



- **Goal:**
 - Complete LEGO-based missions in 2.5 mins
 - Build a LEGO MINDSTORMS robot and program it to autonomously solve the missions
- Teams participate in timed matches
- Teams are judged on the quality of their design, strategy, innovation & programming

Research Project

- **Goal:**
 - Identify a problem
 - Come up with an innovative solution
 - Share the solution with others
- The topic is always related to the year's theme
- Teams are judged based on the quality of their research and solution, but also the creativity of their presentation to judges



Core Values

- **Goal:**
 - Helping and working with each other and other teams (Gracious Professionalism and Coopertition)
 - Spreading STEM
 - Inspiring others
- Many teams do outreach events such as running a demo at a library
- Teams develop their own identity with team shirts, hats and even team haircuts!
- Teams are judged based on how students work together, and their understanding and application of the **8 Core Values**
(<https://www.firstinspires.org/robotics/fll/core-values>)



FIRST LEGO League is HARD FUN!



- Learn **STEM skills** (Math, Science, Research...)
- Learn **life skills** (teamwork, presentation, interviewing, confidence...)
- Make **friends** from around the world
- Have fun!



Useful Resources



- **Coaching Resources:**
 - FIRST Steps:
<http://info.firstinspires.org/fllfirststepsrequest>
- **Programming Lessons/Starter Robot Designs:**
 - www.EV3Lessons.com
- **Challenge Documents:**
 - <http://www.firstlegoleague.org/challenge>
- **Organizers in each country:**
 - <http://www.firstlegoleague.org/countries>

Credits

- This presentation was compiled by Sanjay and Arvind Seshan
- Photos By: Not the Droids You Are Looking For, Razorback FIRST LEGO League Invitational (2015)