



Team 1923: The MidKnight Inventors

Programming Subteam
October 24th, 2016

Overview



- Yearly Schedule
- Our Tools
- Activity!
- Q&A

Preseason



- Learn Java!
 - Class signups coming out soon!
- Tinker with sensors & test code
 - Using our past seasons' robots
 - Work with fall project robots as they are completed
- Set up GitHub

Week 1 - 3



- Before encoders:
 - Plan autonomous
 - Make basic teleop code & dead-reckoning autonomous
 - Determine sensor use for robot systems
- After encoders:
 - Make drive code with encoders
 - Integrate any other sensors
 - Start coding autonomous modes & any teleop automation that may be needed!

Week 4 - 6

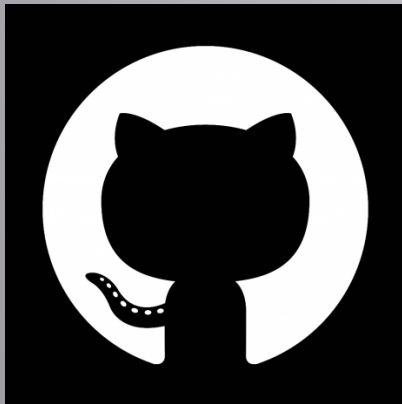


- Program the mechanisms
 - Arms, intakes, shooters, etc
 - Integrate sensors
 - Sequential actions & automation
- Advanced Autons
 - Make use of all available sensors
 - Vision Tracking

Technical Stuff



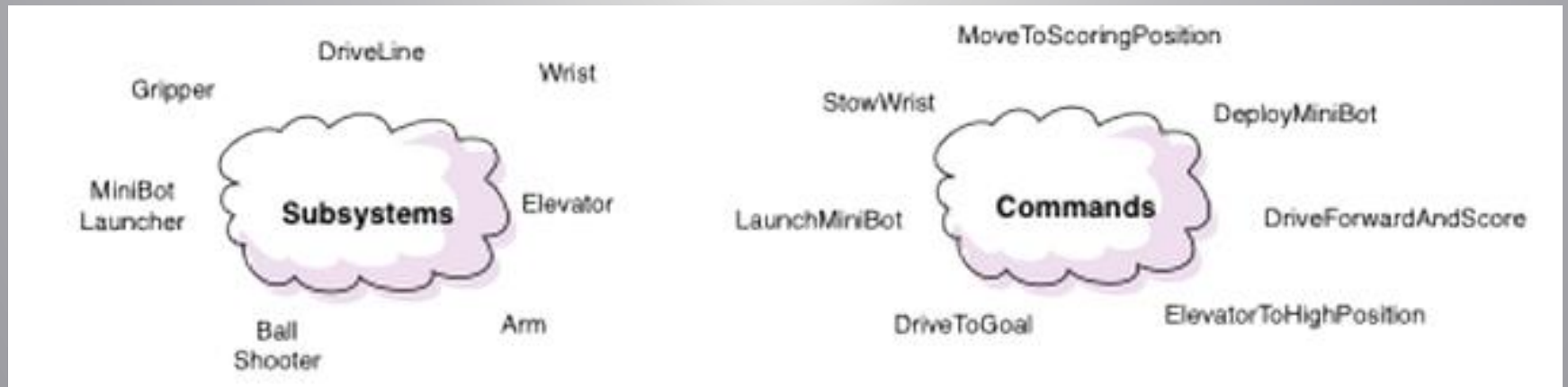
- Language: Java
- IDE: Eclipse
- Github: <https://github.com/Team1923>



Command Based Programming



- Subsystems
- Commands
- Command Groups



GitHub Bootcamp

1



Set up Git

A quick guide to help you get started with Git.

2



Create repositories

Repositories are where you'll work and collaborate on projects.

3



Fork repositories

Forking creates a new, unique project from an existing one.

4



Work together

Send pull requests, follow friends. Star and watch projects.

NanoBreeze ▾

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Welcome to GitHub! What's next? (on Jun 17, 2014)

[Create a repository](#)
[Tell us about yourself](#)
[Browse interesting repositories](#)
[Follow @github on Twitter](#)

💡 **ProTip!** Edit your feed by updating the users you follow and repositories you watch.

Your repositories 0

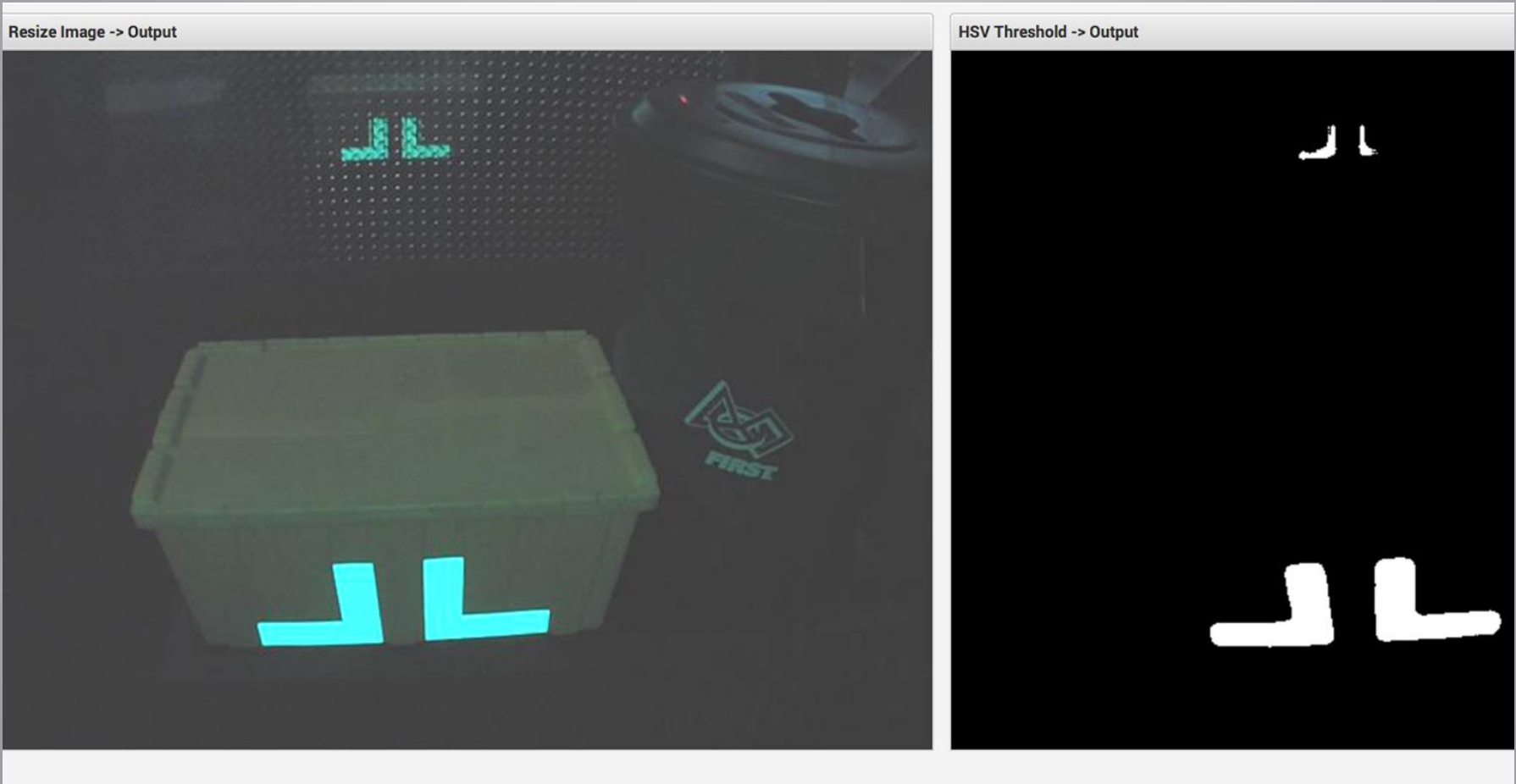
[+ New repository](#)

You don't have any repositories yet!
[Create your first repository](#) or [learn more about Git and GitHub](#).

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Vision Processing



Kahoot!



- This brief jeopardy style interactive platform will introduce you to what the programming subteam is all about.
- [Kahoot!](#)



Questions?