Development-Team Organization
Team Issues

- Assignment of responsibility
- Distribution of authority
- Establishment of lines of communication
- Documentation for the above
- Exploiting relative proficiencies
- Creating stakes for everyone to hold
Single Programming Team Organizations

- Centralized Hierarchy
- Flat Democracy / “Egoless”
- Centralized Democracy
- Chief-Programmer Team
Centralized Hierarchy

Manager

Programmer 1  Programmer 2  Programmer 3
Hierarchy Pros/Cons
Flat Democracy

Programmer 1

Programmer 2

Programmer 3

Programmer 4
Flat Democracy Pros/Cons
Centralized Democracy

Programmer 1

Programmer/Coordinator

Programmer 2

Programmer 3

Programmer 4
Centralized Democracy Pros/Cons
Chief-Programmer Team

- F. Terry Baker, 1975

- Modeled after a surgical team
Chief-Programmer Team

Chief Programmer (~ surgeon)

- Language Lawyer
- Programming Librarian
- Editor
- Toolsmith
- Tester
- Backup (~copilot)
- Jr. Programmer
- Administrator/Secretary

Increasing qualifications
Chief-Programmer Team Pros/Cons
“Tiger Team”

- Not a programming organization as such
- Consists only of super-qualified individuals
- Usually sent in from the outside to diagnose problem
eXtreme Programming (XP)

- From Kent Beck, one of the CRC card inventors
- Programmers work as pairs, sharing a workstation, at all times.
- Anyone can change any code anywhere in the system at any time.
- On-site customer, “writes tests”.