XP - Planning

- Planning in XP
 - Need to manage a Product Backlog which is a prioritized list of features
 - Product owner keeps it prioritizes and controls how it changes over time
 - We will generate the initial backlog with the Planning Game (from XP)
- Selecting what we will build
 - Goal: to generate and prioritize required functionality
 - Strategy: invest as little as possible to put the most valuable functionality into production as quickly as possible paying attention to programming and design strategies that reduce risk.

Planning Game

- Players:
 - Customer
 - Development
- Pieces: Story Cards
 - date
 - type of activity: new, fix, enhancement, or test
 - priority (user and development)
 - description
 - risk
 - estimate
- Three Phases:
 - Exploration
 - * write a story (customer)
 - * estimate a story (development)
 - * split a story (either: it might be too big to estimate or parts might have different priorities)

- Commitment

- * sort by value (business) into three piles
 - \cdot necessary for the system to function
 - · less essential, but of significant business value
 - · nice to have
- * sort by risk (development) into three piles
 - · can be estimated precisely
 - \cdot can estimate with reasonable confidence
 - · cannot estimate
- * set velocity (development) (how fast the team can program in an appropriate metric/calendar month)
- * choose scope (business)
 - · must select stories so they fit in the project velocity

- Steering

- * scale back velocity (development)
 - · can ask business to narrow stories in the current release
- * new story (business) in mid-release
 - · can add a new story if it removes undeveloped stories of equal estimates
- * reestimate (development)
 - \cdot if plan is no longer accurate, development can reestimate all undeveloped stories and reset the velocity.
- Phases are NOT sequential go back and forth between them frequently

Iteration Planning Game

Similar to the Planning Game, but used to plan the individual tasks/assignments that will build the functionality committed to in one iteration.

- Pieces Task Cards
 - Description of something we need to do/build
- Exploration Phase Moves
 - turn the stories into tasks (create task)
 - split a task/combine tasks want each task to be estimated to be between 0.5 to 3 days
- Commitment Phase Moves
 - accept a task (by an individual)
 - estimate a task (responsible individual)
 - * can be conditional on getting help from someone else
 - * ignore pair programming it shows up in calculation of project velocity that also accounts for meetings etc.
 - set load factors (each individual)
 - * percentage of time you will spend actually developing
 - * comes from historic metrics (never higher than 0.5 and rarely higher than 0.3), but can account for planned vacation/holidays
 - balancing (all)
 - * add up your time and make sure no one is overcommitted
- Phases are NOT sequential go back and forth between them frequently
- Differences from Planning Game
 - individual accepts a task before estimating it
 - there may be tasks that are not related to needs of the customer (tool development, major refactoring, etc.)