



PAC MEME

Natalie Boardway, Jon Griesen, Nicholas Reitz and
Nate Stern



Group Members

Natalie Boardway: Assistant to the Regional Project Manager

Jon Griesen: Project Manager (timeline overseer / sprite integration)

Nate Stern: Makes (all of the) diagrams -- usually overdone. Also superb note-taker

Nicholas Reitz: Software Engineer - Coding Extraordinaire



Introduction

Basics of Pac-Man

- Moving around the maze-- trying not to run into walls
- Trying to collect all the dots -- collect as many points as possible
- Avoiding the ghosts -- trying not to die

With a Twist

- Updating the graphics

Timeline (Implementation Approach)

- Phase One - Requirements Gathering
 - Scope Determination
 - Game Tutorials
 - Software Needs (Java / Other)
- Phase Two - Implementation
 - Initial GUI
 - Actor/Object Creation
 - Collision Mechanics (Map Pathing)
 - Attack Mode
- Phase Three - Refinement
 - Main Menu
 - Title Screen
 - Leaderboard
 - Visual Sprites/Audio Effects
 - Additional Levels/Difficulty Settings



*SIMPLE GANTT CHART by Vertex42.com (https://www.vertex42.com/ExcelTemplates/simple-gantt-chart.html?utm_source=ms&utm_medium=file&utm_campaign=office&utm_content=text)

Moot Floating Po

Natalie Boardway

Nicholas Reitz

Nathan Stern

Jon Griesen

von Christen

Project Start:

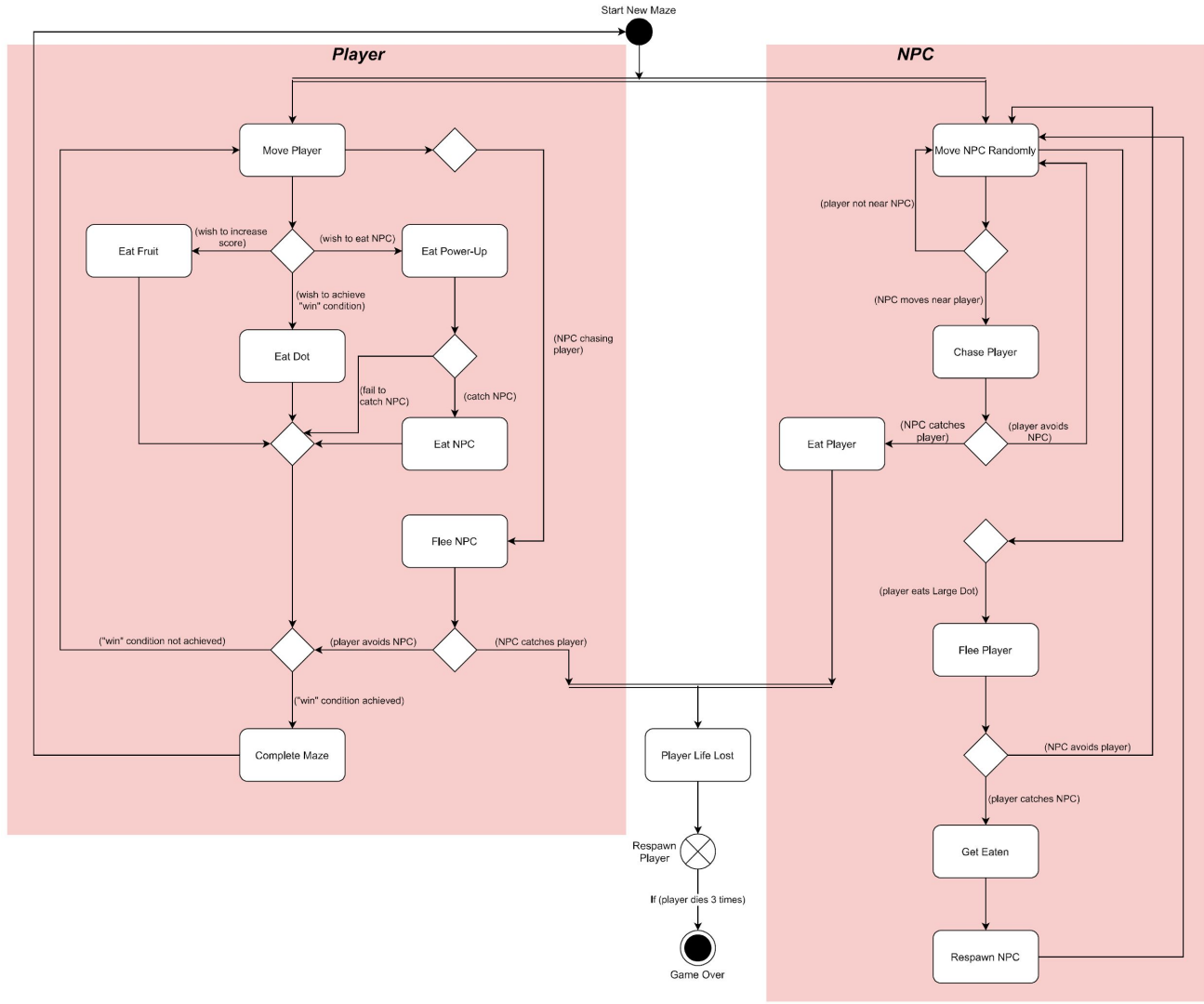
Tue, 9/29/2020

Display Week:

5

[illegible]

Activity Diagram



Use Case Description

Use Case Name: Consume Collectable	ID: 1	Importance Level: High
Primary Actor: Player	Use Case Type: Overview, Essential	
Stakeholders and Interests: Player – Wants to accumulate points and complete game objective through in game object consumption.		
Brief Description: This use case describes how the game system is modified when the player character interacts with a consumable object within the game context.		
Trigger: Player character interacts with a consumable object, resulting in one or more game system state changes. Type: External		
Relationships: Association: Player, GamePanel Include: n/a Extend: CollectDot; CollectFruit; ConsumeNPC; UsePowerUp Generalization: n/a		
Normal Flow of Events: <ol style="list-style-type: none">1. The player actor navigates the game map.2. The player actor consumes one of several possible collectable game objects.3. Depending on the type of collectable object consumed, the game state is modified appropriately.<ul style="list-style-type: none">- If dot is consumed, subflow S-1 is performed- If fruit is consumed, subflow S-1 is performed- If NPC is consumed, subflow S-1 is performed- If power up is consumed, subflows S-1 & S-2 are performed4. Consumable object despawns from the game space (or returns to central hub in case of NPC).		
SubFlows: S-1: In game player score increases (point value increase dependent on consumable object type) S-2: Player actor “attack mode” enacted. Enemies transition to flee behavior and become vulnerable.		
Alternate/Exceptional Flows: n/a		

Demo time!

