



Case Study: SlotZ Racer

Multi-player game

3D graphics

Custom user interface elements

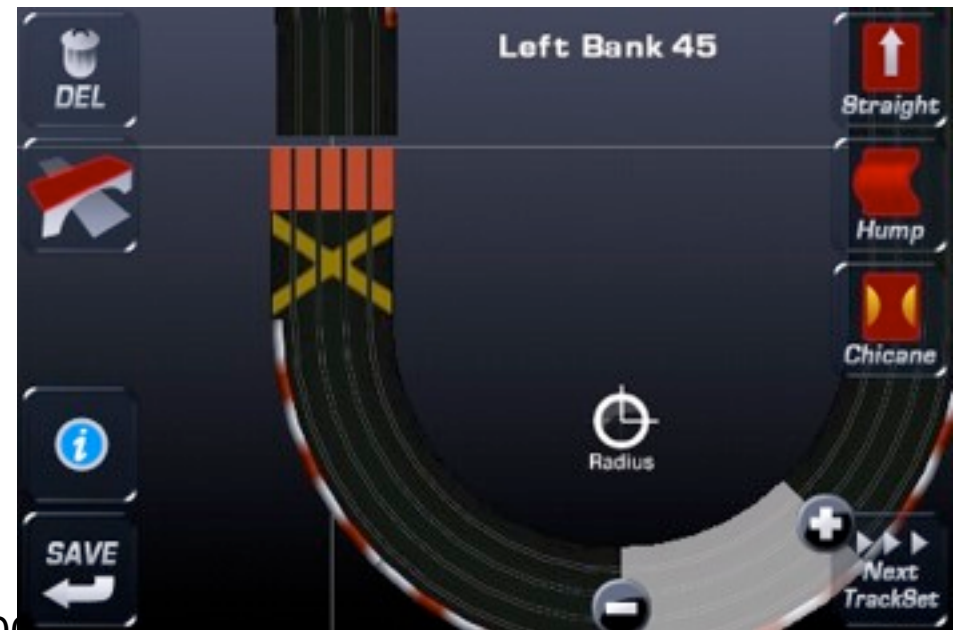
Disclaimer

- My *only* connection with SlotZ Racer is that it's my favorite game.



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SlotZ Racer



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Features

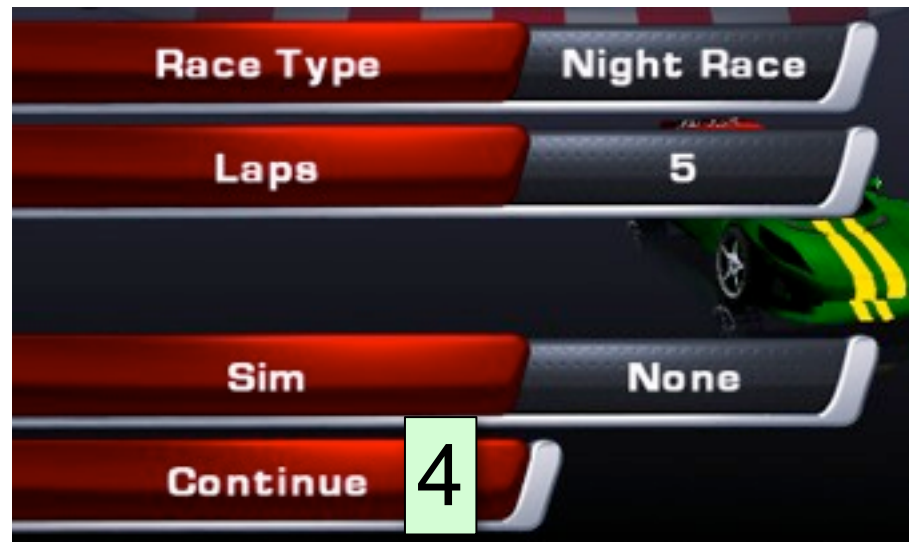
Sophisticated Game

- Slot car racing game
- Race against the computer or friends
- Up to 4 people to race on a single iPhone!
- Built-in track editor
 - Also separate iPhone track editor
- Download tracks from server
- Many options

Example Control Flow



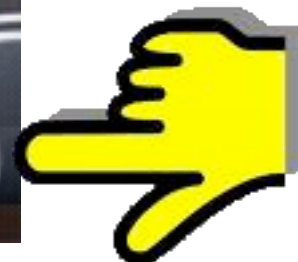
- Functionally equivalent to nested table views



Potential Problem: Network Latency

- Want to race against other people
- Network lag would prevent realistic races
- Solution: put four drivers on a single iPhone

Four Players on One Device



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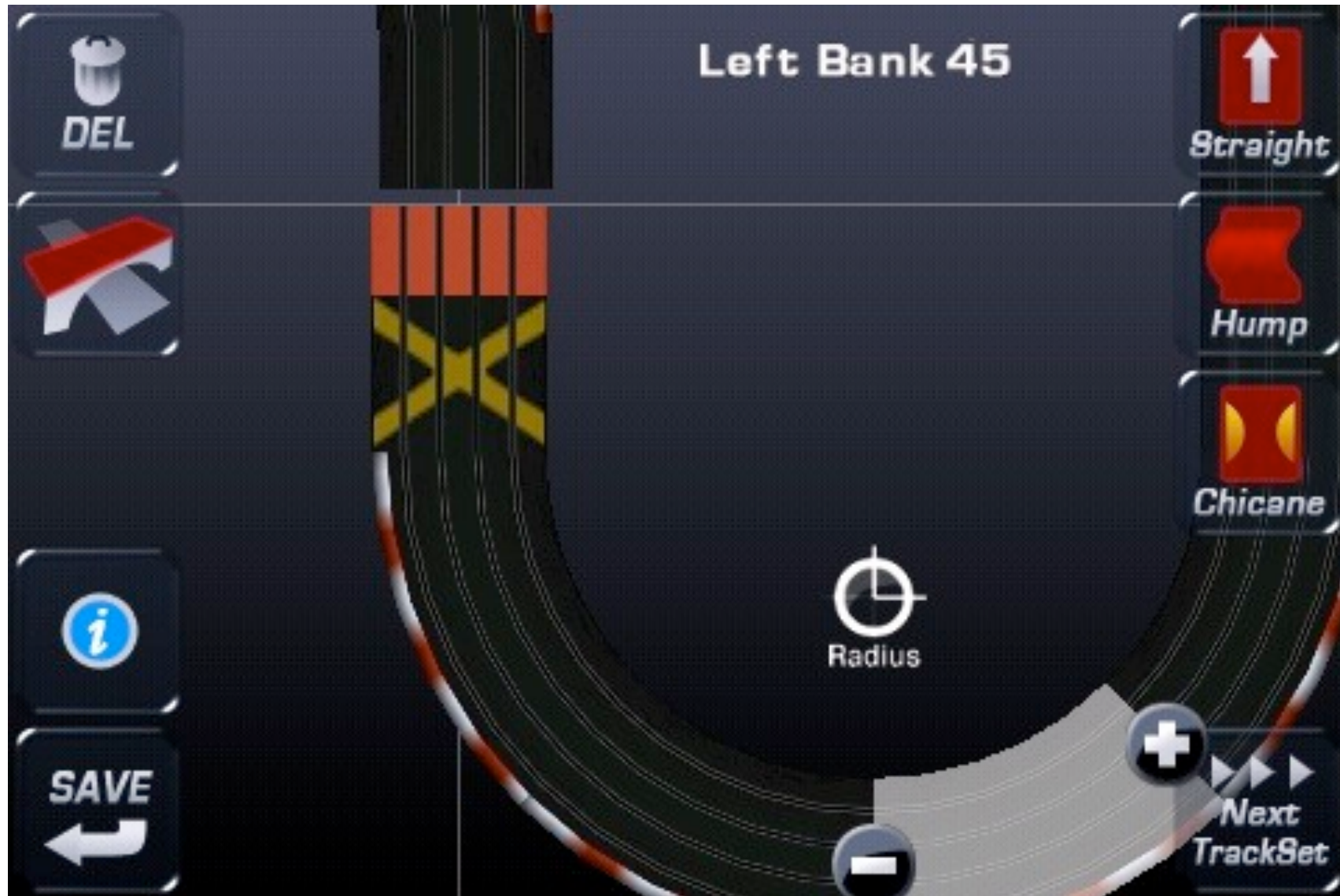
Requirement: Extensibility

- Start with lots of built-in tracks
- Allow users to design new tracks
 - Provide built-in track editor
 - Provide separate free track editor
- Allow users to share track designs
 - Provide web site upload/download

Multiple Tracks Provided



Built-In Track Editor



Two Apps + Website



here are some track codes to get you started:

- DBXXZ** - Loopara
- ZWVVQ** - Impozatek
- TNMKT** - Driftown

Type these codes in on the track manager page to add them to your tracks!

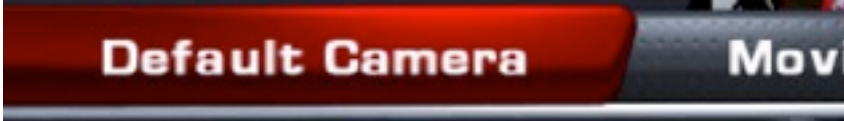
User Options

Basic Options

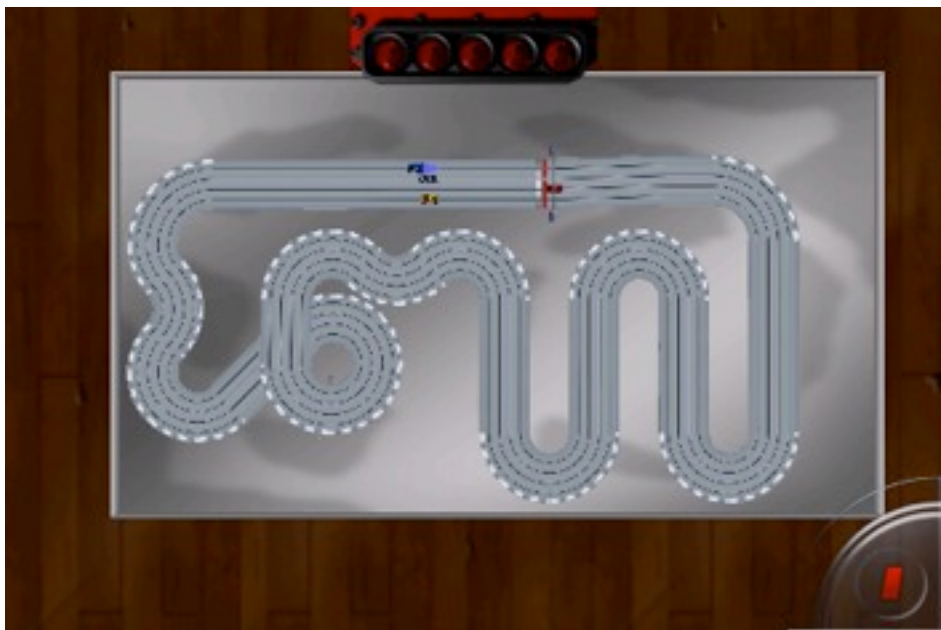


- CPU Skill
- Trails
- Default Camera
- Player Setup
- Player Name
- Throttle Adjust

Problem With Options

- Can't see all your choices at once
- E.g., Default Camera 
 - Only see names of camera positions one at a time
 - Can't see what they mean
- Better to display list of all choices on one screen, with thumbnail for each one

Multiple Camera Views



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Advanced Options

- Scale Speed
- Grip Level
- Acceleration Level
- Tyre Smoke
- Engine Noise
- Champ Points
- Crash Penalty
- Collisions
- Barriers
- Chunky Mode
- Scale (HO or 1/32)
- Analogue Control
- CPU Oops Factor

Lessons Learned

- Market already exists if based on classic games
 - Slot car racing is already well-known
 - Is not too easy to do (unlike slot machines)
- Keep basic operation simple
 - Only need one finger to operate
- Games usually use custom UI elements
 - Tables don't like tables
 - Buttons don't look like buttons

Lessons Learned

- Offer lots of user options
 - Multiple levels of difficulty
 - Make it easy to understand what the choices are
- Offer extensibility
 - Can create new tracks
 - Can download or upload track designs