

Skill and Progression in Forza Motorsport 4



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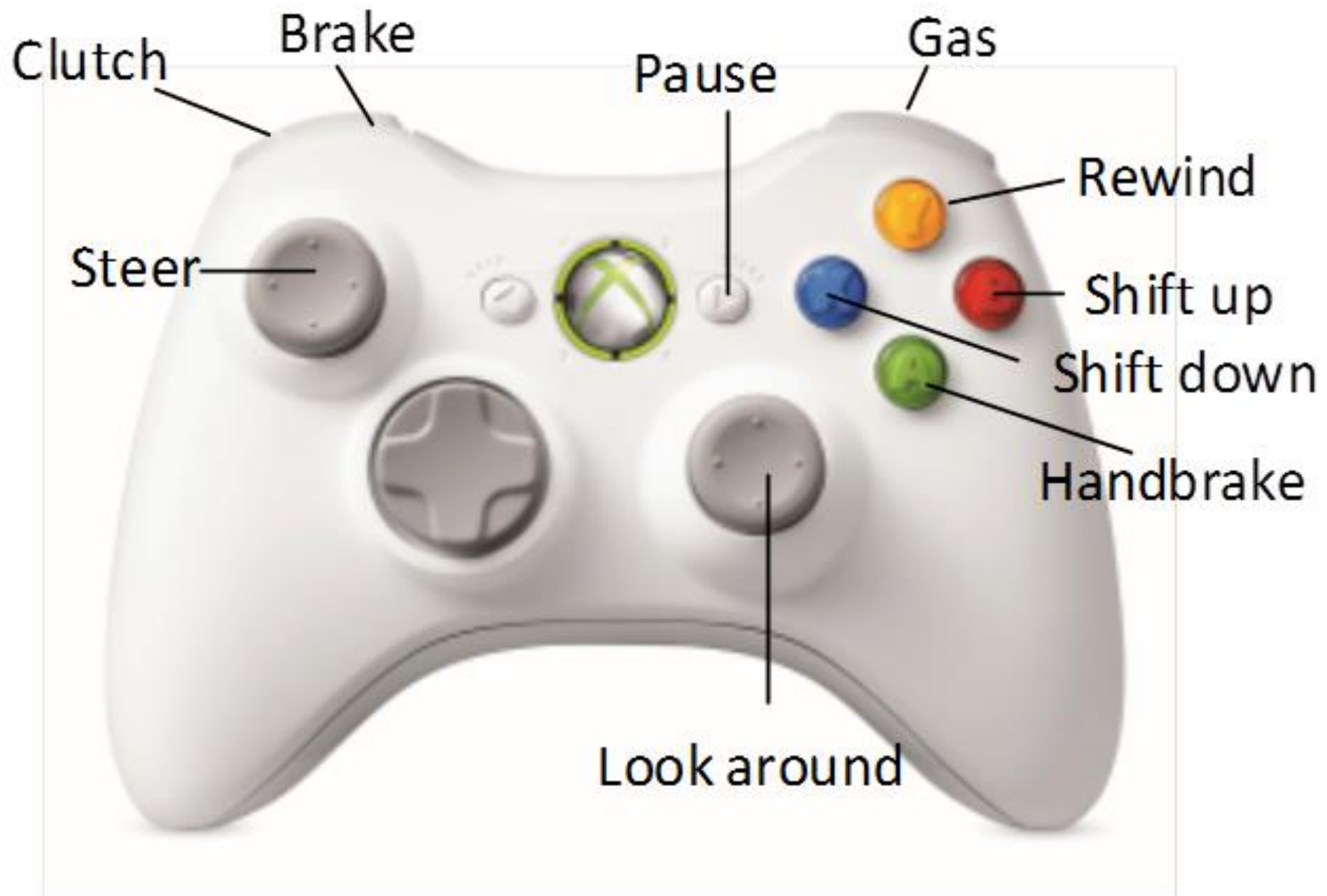




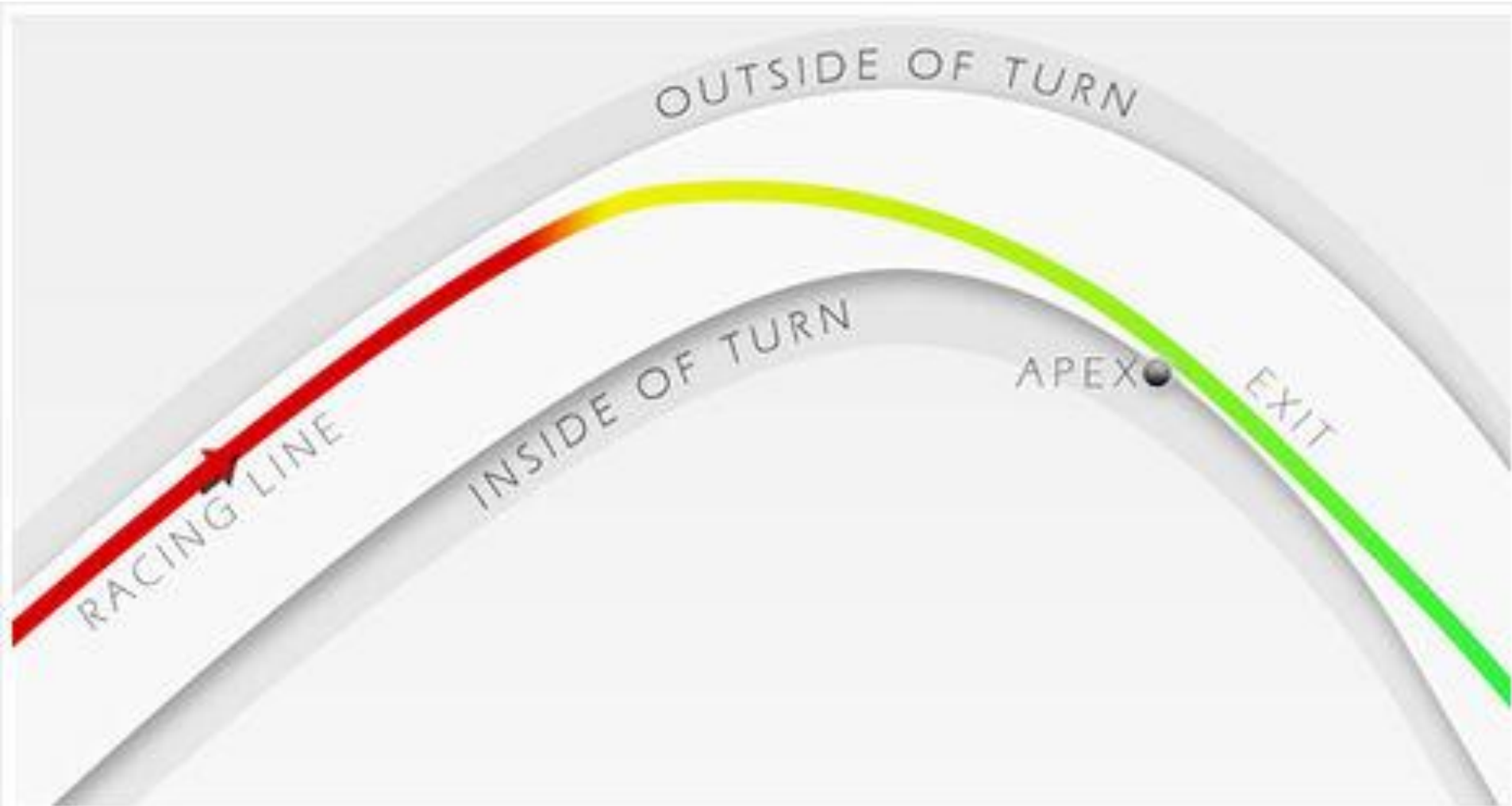
Ryan Cooper
Kevin Carter
Dan Greenawalt
Tyson Soldberg

Outline

- Introduction
- Quick-and-dirty mining
- Drilling down



Braking



Stability



FORZA MOTORSPORT | **4**

Trajectory Line



Dataset

- 200k players
- 24M race entries
- October 2011 (launch) – July 2013



QUICK AND DIRTY MINING (PICKING DESCRIPTIVE METRICS)

Segmentation

- Metric: number of races played

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- Step 1:
 - Average = 120

Segmentation

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- Step 1:
 - Average = 120
 - Median = 30

Segmentation

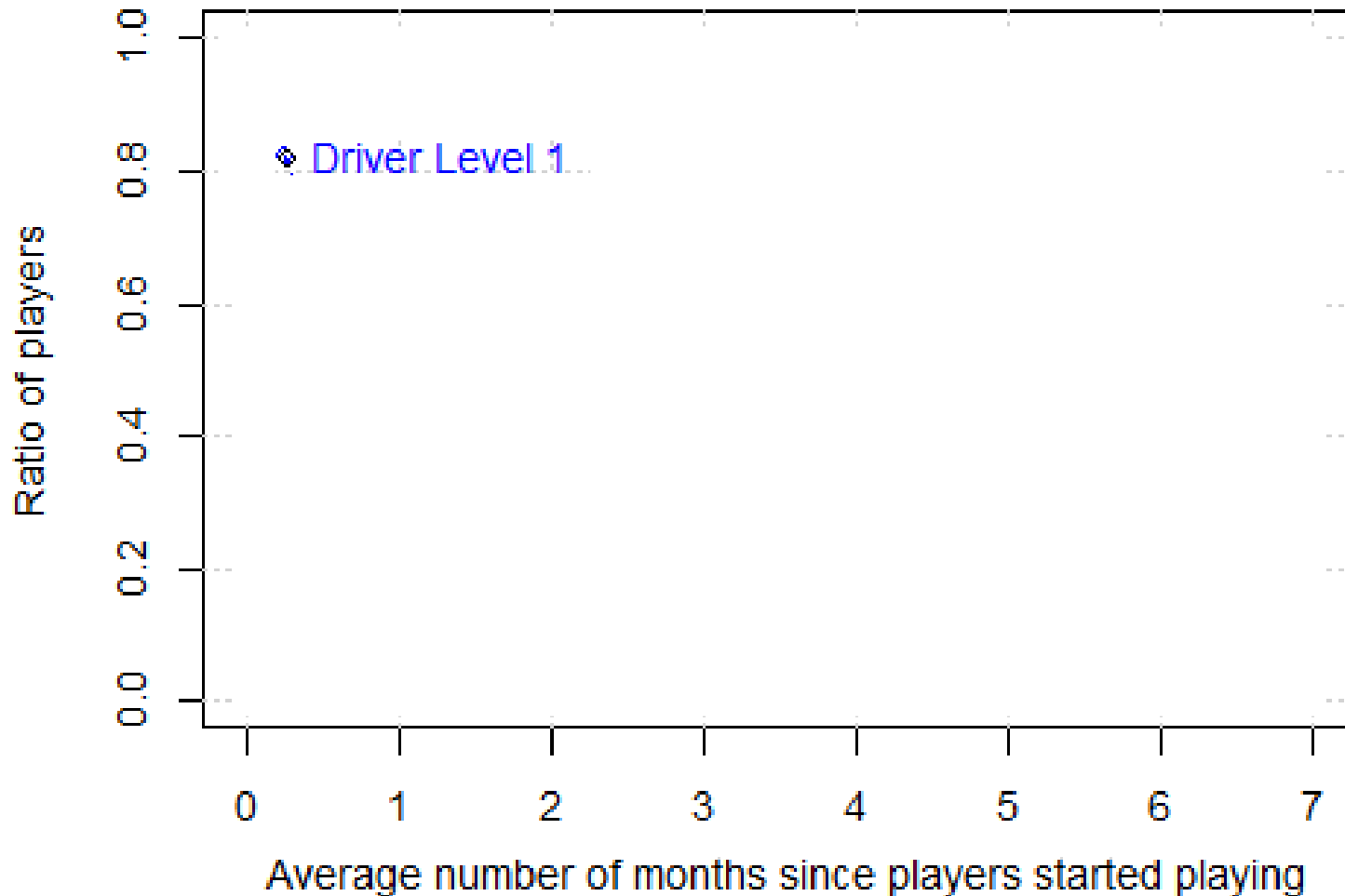
- Metric: number of races played
- Step 1:
 - Average = 120
 - Median = 30
- Step 2:
 - Top 5 percentile > 400
 - Top 5% account for half of all races

Segmentation

- Metric: number of races played
- Step 1:
 - Average = 120
 - Median = 30
- Step 2:
 - Top 5 percentile > 400
 - Top 5% account for half of all races
- Step 3: races per day, races win ratio, ...

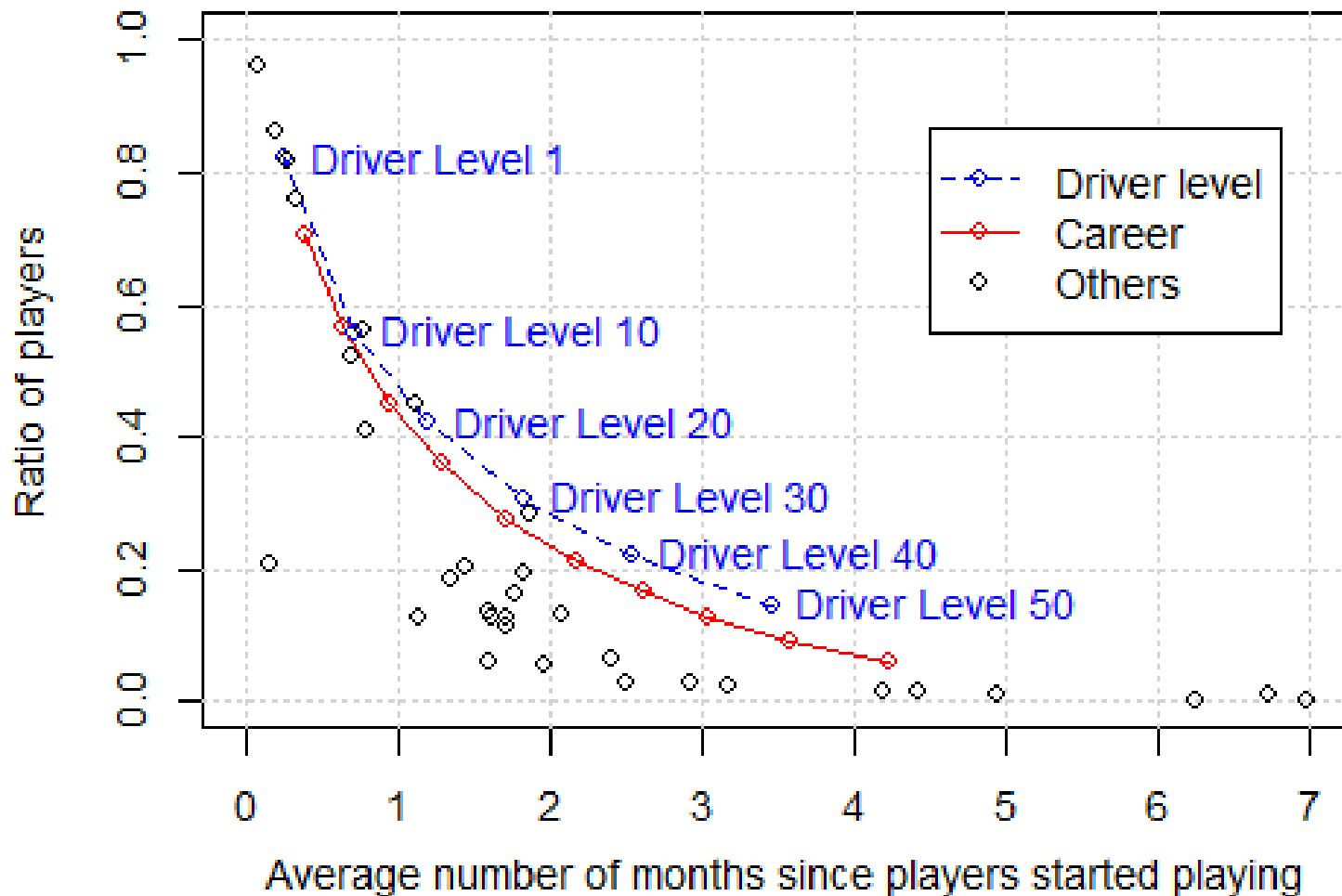
Progression and Churn

Metric: time to unlock achievement



Progression and Churn

Metric: time to unlock achievement



Platform Achievements

- iOS Game Center, PS trophies, Xbox, Steam
- First-party studios: easy
- Third-party studios: REST APIs, sometimes ...

Take-aways

- Play the game ...
- ... To find descriptive metrics/achievements
- ... To quickly glance at player behavior



FORZA MOTORSPORT 4

DRILL DOWN (ANSWERING A QUESTION)

Forza 4 bundles

	Easy	Medium	Hard	Advanced	Expert
Stability	ON		OFF		

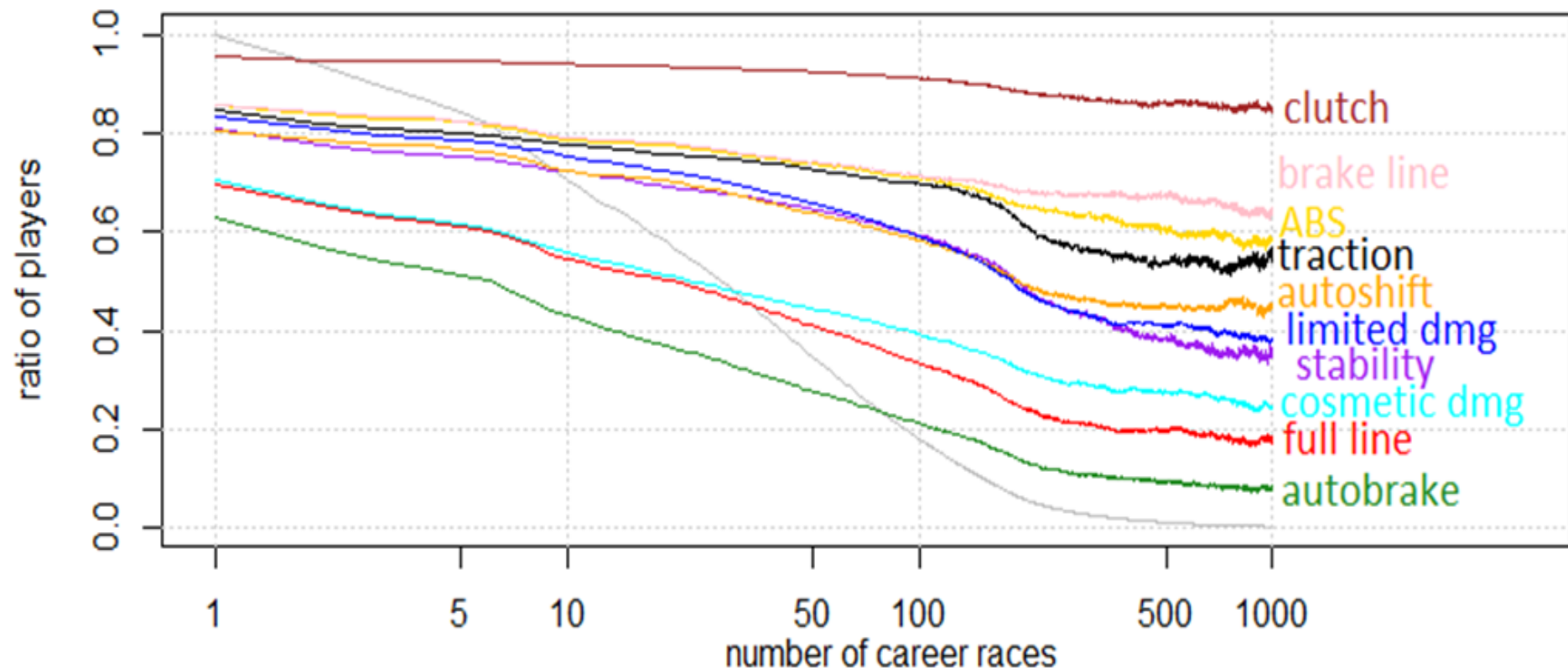
Forza 4 bundles

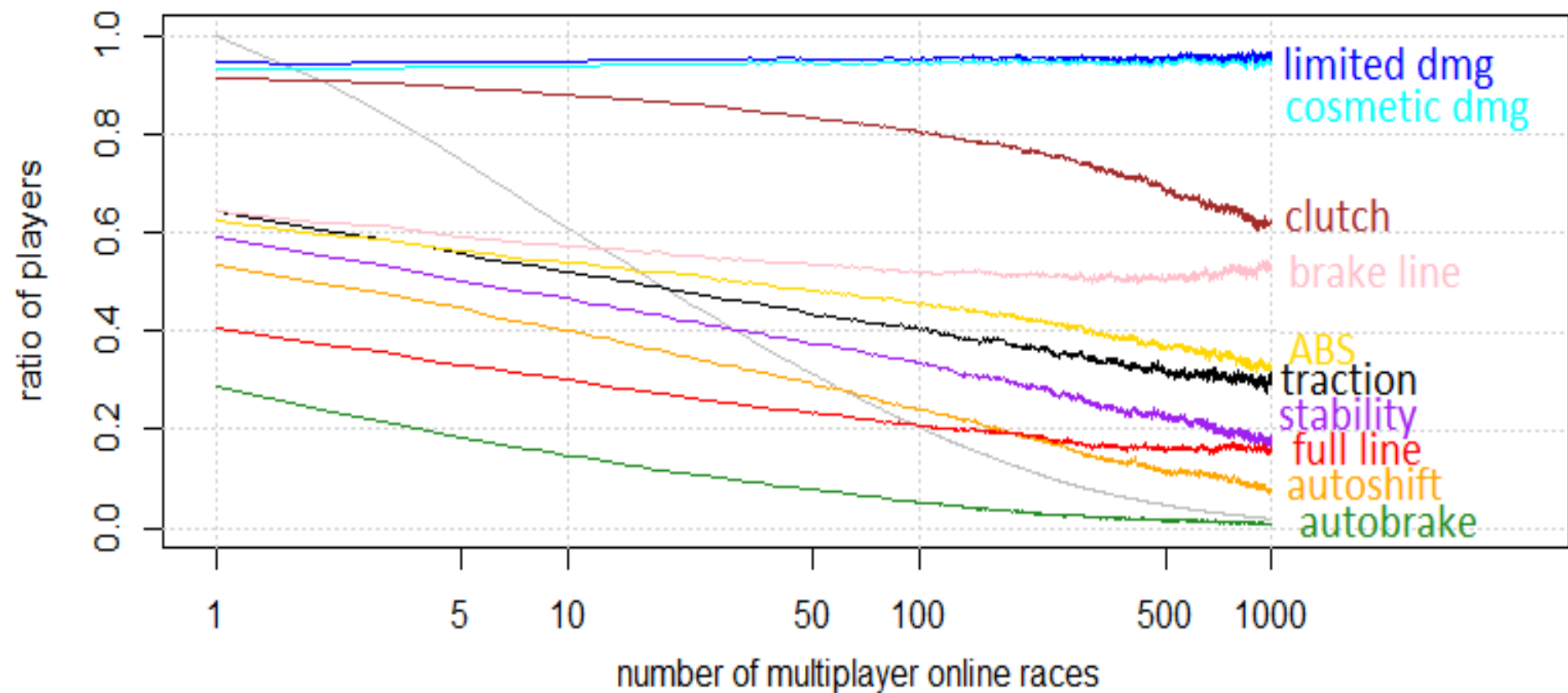
	Easy	Medium	Hard	Advanced	Expert
Stability	ON		OFF		
Traction	ON			OFF	
Braking	Assisted with ABS		ABS	OFF	
Shifting	Automatic w/o clutch			Manual w/o clutch	Manual w/ clutch
Line	Full		Brake		OFF
Damage	Cosmetic	Limited		Simulation	

Forza 4 bundles

	Easy	Medium	Hard	Advanced	Expert
Stability	ON		OFF		
Traction	ON			OFF	
Braking				OFF	
Shifting	Automatic w/o clutch			Manual w/o clutch	Manual w/ clutch
Line	Full		Brake		OFF
Damage	Cosmetic	Limited		Simulation	

Adequate?





Forza 5 bundles

	Easy	Medium	Hard	Advanced	Expert
Stability	ON			OFF	
Traction	ON				OFF
Braking	Assisted with ABS		ABS only		
Shifting	Automatic w/o clutch				Manual w/ clutch
Line	Full		Brake		
Damage	Cosmetic			Simulation	

Take-aways

- Simpler is better (damage types)
- Double check across modes (solo vs online)
- Push expert options in their own menu
- What is the default experience? For whom?



QUESTIONS

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