## 

#### **Designing systemic crowd events on Assassin's Creed Unity**

**Christine Blondeau** Game Designer from Ubisoft Montreal Special Thanks to Simon Girard from Ubisoft Quebec

GAME DEVELOPERS CONFERENCE

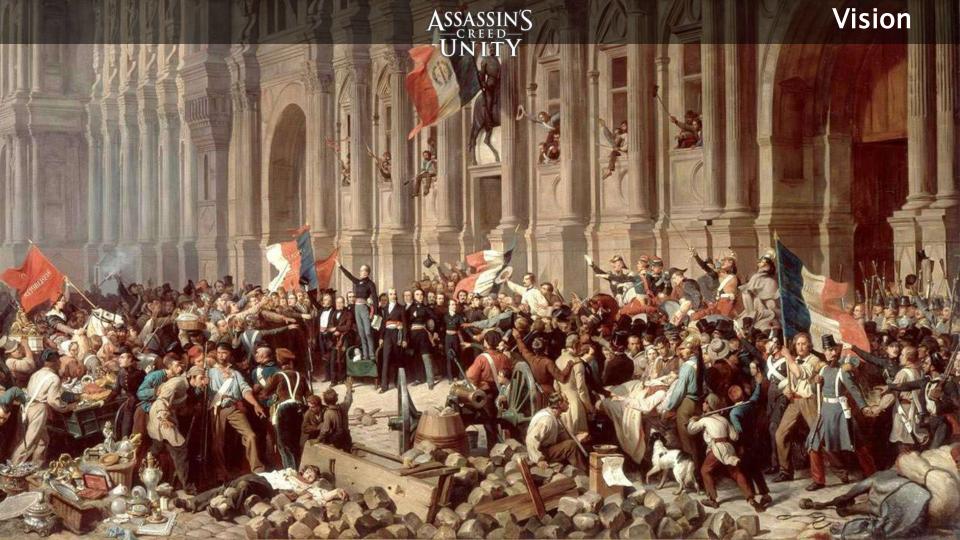
MOSCONE CENTER · SAN FRANCISCO, CA MARCH 2-6, 2015 · EXPO: MARCH 4-6, 2015

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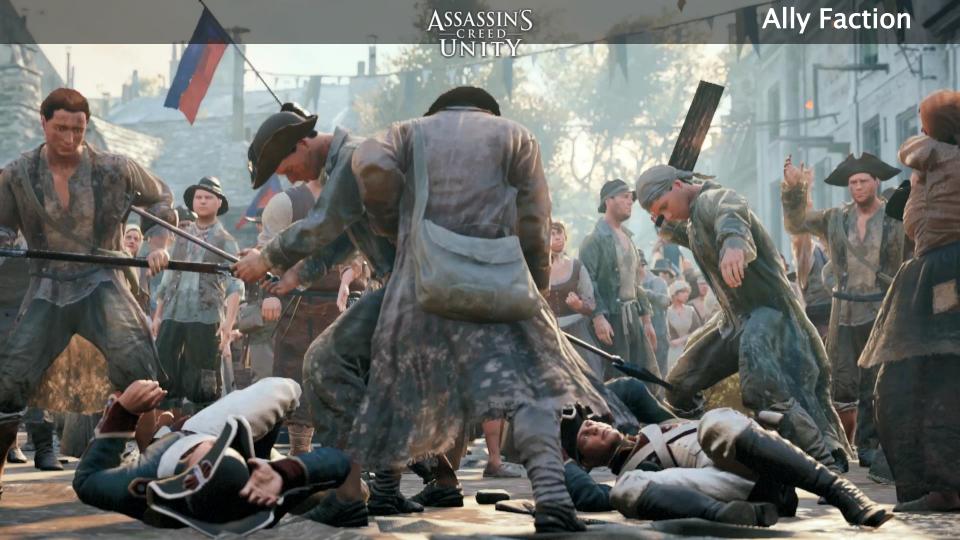
#### **Design Intentions**

#### Make Paris live & breathe ON IT'S OWN.

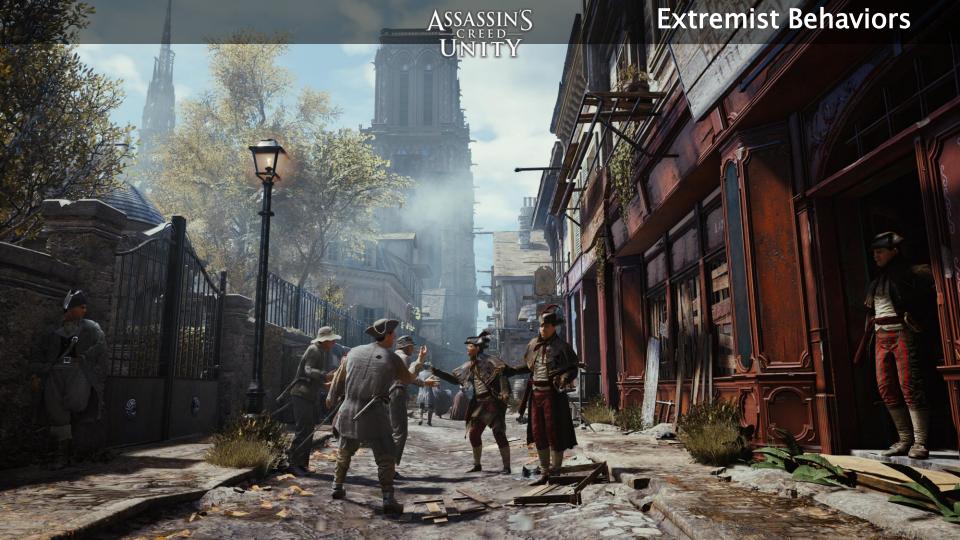
#### \* Allow Emergent Gameplay ALL OVER Paris and IN MISSIONS.

ASSASSINS













# ASSASSIN'S UNITY Royal Guard Behaviors Deg 2

#### Royal Guard Behaviors

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**Ecosystem: Lure Extremists towards Guards to get rid of them.** 











#### **Crowd Stations**

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Disclaimer: The following presents Massive Crowd during it's development.





# Crowd, Al Interactions, Object Carriers, Crowd Events

### Disclaimer: The following sequences presents Crowd Life during Development.

#### **Crowd Events**

#### Ecosystem can affect the Event's difficulty

#### Challenge Pillars: Fight, Navigation, Stealth & Social Skill

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#### **Crowd Events**

#### 7 Templates

Flexibility over which factions plays in the event

Flexibility over the amount of NPCs playing in the event

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#### Tackle the Thief

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O Tackle the thief

# Assassins Catch & Kill the Criminal UNITY

Kill the criminals



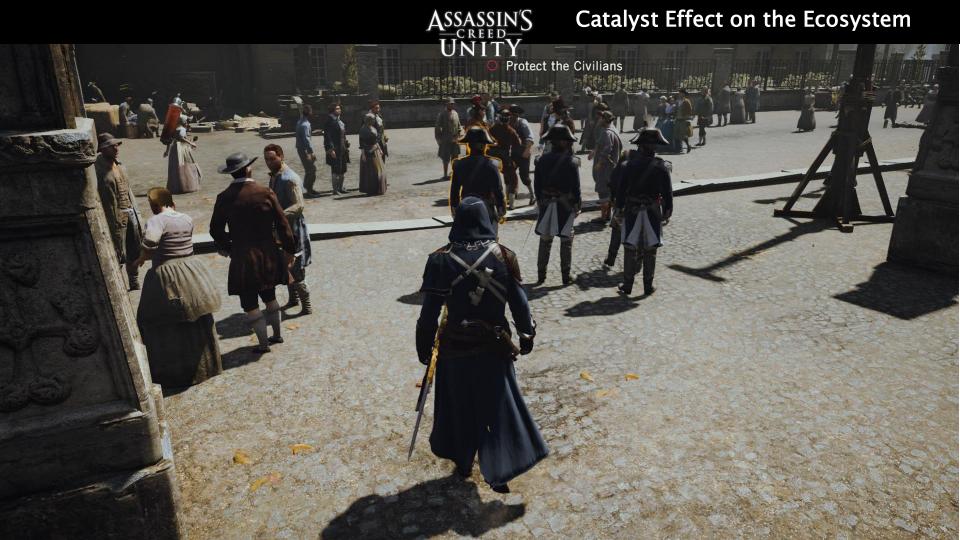














### Murder event inside massive crowd



#### Modular System

#### Modular System divided into 3 Blocks:

Intro Block

Challenge Block

Resolution Block



#### Modular System

#### Modular System divided into 3 Blocks:

Intro Block

Challenge Block

Resolution Block

#### **Embracing Emergence**

# Conceptually exciting Hard to embrace

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### **Controlling Emergence**

# Master Switch

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### Exclusion Zone

#### **Event Controller**



Check Player Status & Progression Check District & Time of Day Manage Acquisition & Spawning of Actors Manage Frequency Manage Redundancy

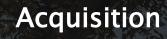
Manage Rewards

EventController: Started (M) CrowdEventCreator : SetupCrowdEvent - Wait CrowdEventHandler: idle - Waiting for events.

Crowd Events running: - None - None

- None - None

Start



ALCAL



#### **Spawning Location**

EventController: Started (M) CrowdEventCreator: Idle 8.08 CrowdEventHandler: idle - Waiting for events.

Crowd Events running: - CE\_Scare\_01\_4CivCoward\_1Baker (Dynamic) -None

- -None
- -None

#### Event Creation Log:

#### CrowdEventCreator: Idle 10.67 CrowdEventHandler: idle - Waiting for events.

Crowd Events running: - CE\_Hostage1\_2Aggressors\_1Ally (Dynamic) - None - None - None

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### Spawning

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CrowdEventCreator: Idle 4.97 CrowdEventHandler: idle - Waiting for events.

Crowd Events running: - CE\_Hostage1\_2Aggressors\_1Ally (Dynamic) - None - None - None

#### Spawning

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**EventController: Started (M)** CrowdEventCreator : SetupCrowdEvent - Wait CrowdEventHandler: idle - Waiting for events.

Crowd Events running: - CE\_Hostage1\_2Aggressors\_1Ally (Dynamic) - None -None -None

### Spawning

#### EventController: Started (

EventController: Started (u) CrowdEventCreator: Setup CrowdEvent - TryingToStartCrowdEvent CrowdEventHandler: idle - Waiting for events.

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Crowd Events running: -None - None - None - None

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#### EventController: Started (M) CrowdEventCreator: Idle 6.70 CrowdEventHandler: idle - Waiting for events.

us: 0,1189

Crowd Events running: - None - None - None - None

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#### Tuning Emergence

### Ask for Tuning Tools

Saves Production Time

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Helps fine tuning early

### Tuning Tools



#### EventiController: Started (M)

CrowdEventCreator: Idle 8.08 CrowdEventHandler: idle - Waiting for events.

Crowd Events running: - CE\_Scare\_01\_4CivCoward\_1Baker (Dynamic) - None

- -None
- None

#### Event Creation Log: - Fall - Al Condition - TimeOfDayCo - Fail - Al Condition - DistrictCondition

- all Al Condition TimeOfDayCondition (8.99) all - Al Condition - TimeOfDayCondition (9.59)
- all Too many active crowd events within Analyzer radius (10.2

### Tuning Tools



#### EventiController: Started (M)

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Crowd Events running: - CE\_Scare\_01\_4CivCoward\_1Baker (Dynamic) - None

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#### Avenues of improvement

### Diversity of Challenges

### Use Crowd Stations in Intro Blocks

### Push Acquisition

#### **Avenues of improvement**

## ASSASSIN'S CREED UNITY



