



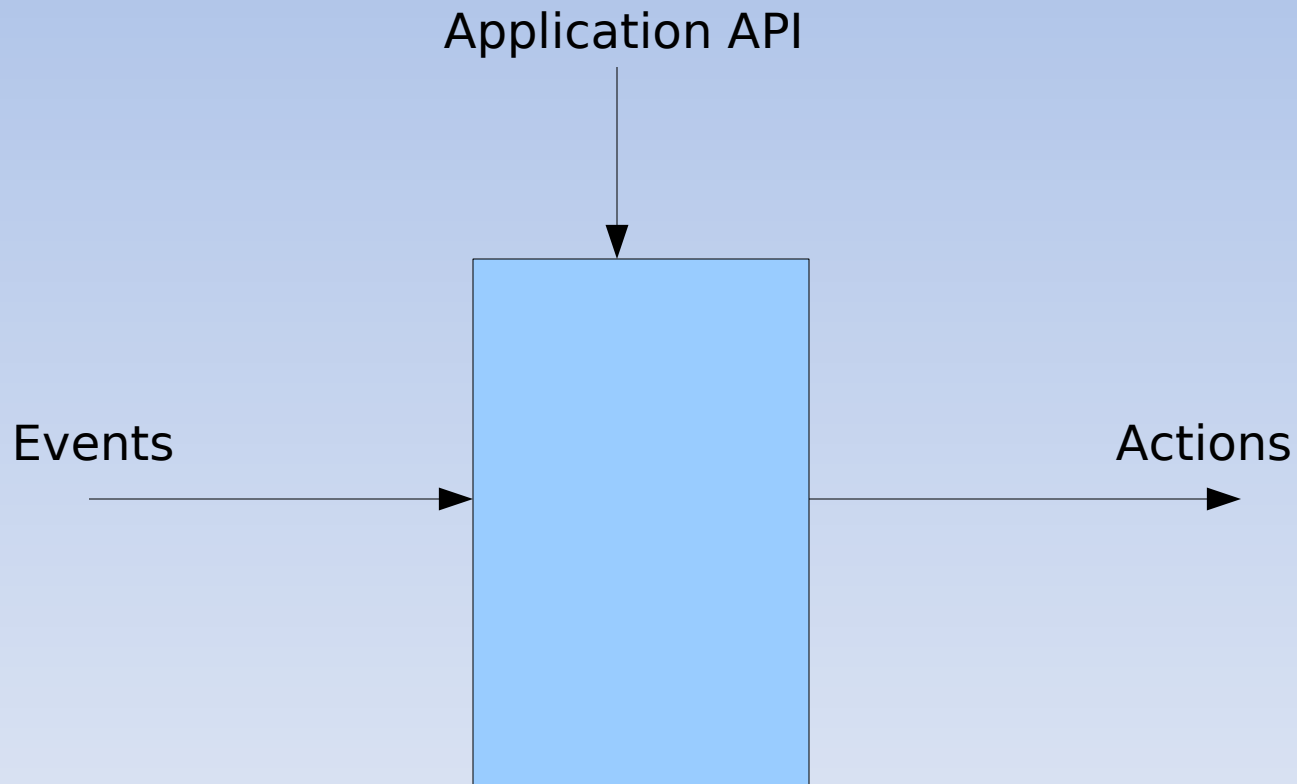
Application Proposal

Evan Korth (ITP Instructor)
Michael Schidlowsky (Google Sponsor)
Andrew Case (Team Liaison)
Sucharita Gaat
Rajiv Sharma
Pradeep Harish Varma



Google's Proposal

- Build an Event/Action Interface



Why build an Event/Action Interface?

- Applications need a better way to talk to each other
 - Apps need a common way to send/receive notifications that isn't application dependent
 - Apps shouldn't need prior knowledge of other applications to send/receive events/actions
- User should be able to customize it
- Applications should be able to customize it (with user confirmation)
- This will help to automate how our phone interacts with ourself and our applications



What is an Event/Action Manager

- Applications fire events
- Manager catches events
- Manager looks up it's ruleset and then
- Manager fires off actions for other applications



What is an Event

- Applications fire events
- An event can be any action on the phone that provides some type of message that our manager can catch using a broadcast receiver.
- Example:
 - If you add a contact on your social networking application, that application could then fire off an event notification to us letting us know that this event just occurred



What is an Action

- Manager fires off actions for other applications
- An action can be any type of intent that the phone supports.
- Example:
 - If the manager has been informed by any application that a contact has been added to that application, the manager could in turn fire off intents to other applications to add that contact to their respective data stores as well.

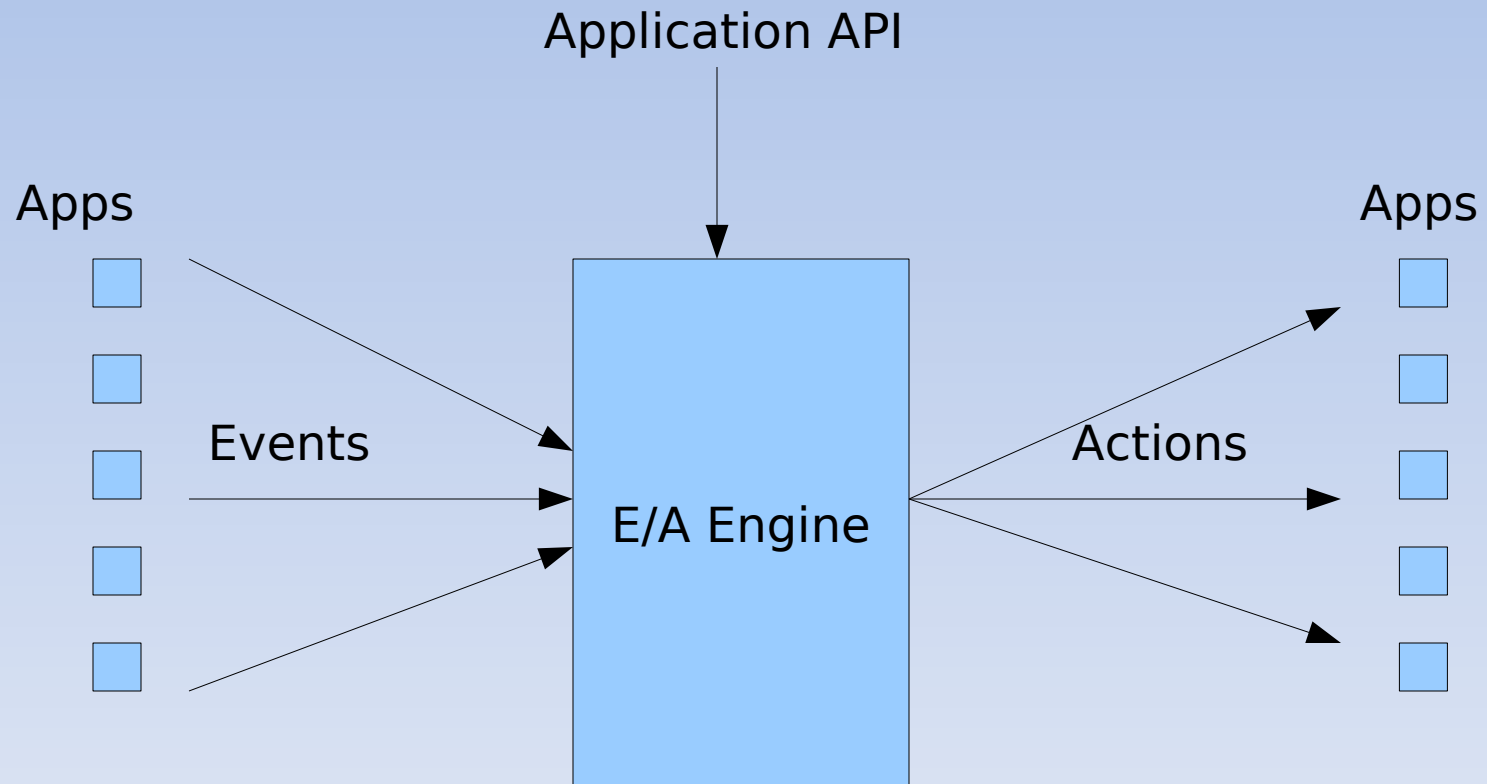


What is the Ruleset

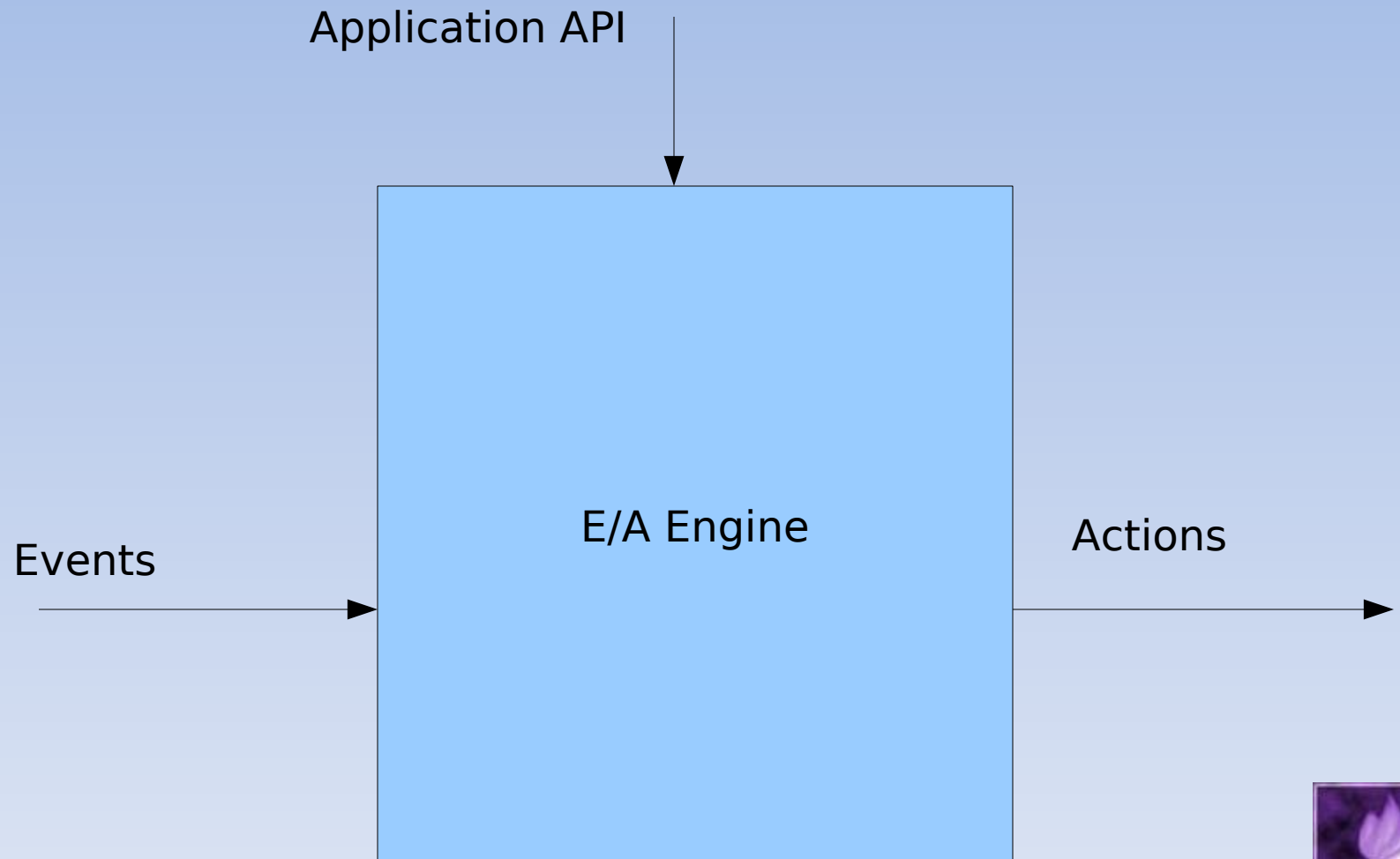
- The ruleset is a database of actions and events.
- The E/A Manager looks up it's ruleset and fires off actions based on the event that took place and what actions are predefined for that event.
- Ruleset is modifiable through both the UI and through the Application API
- Each event can connect to multiple subsequent actions



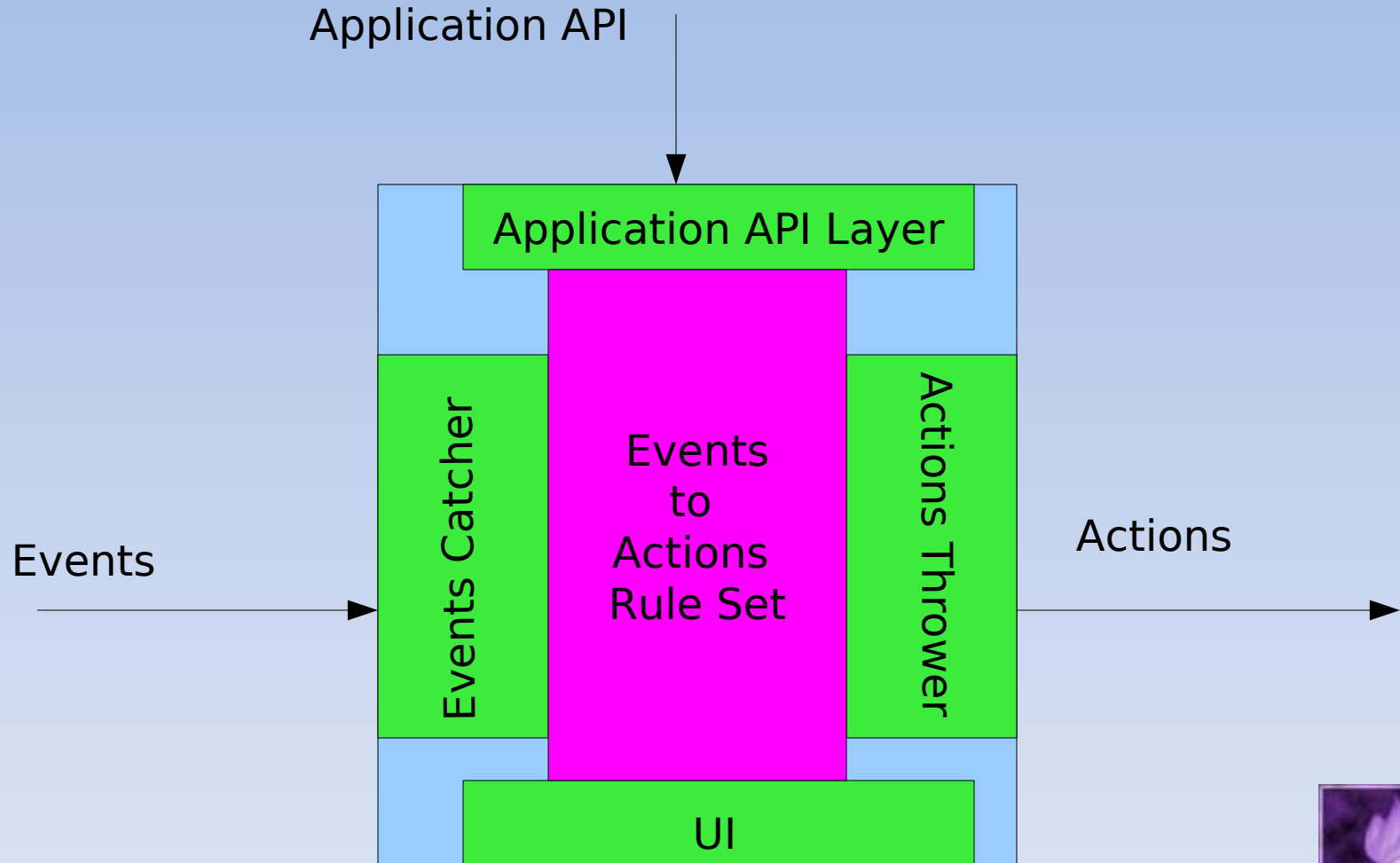
E/A Engine



E/A Engine Architecture



E/A Engine



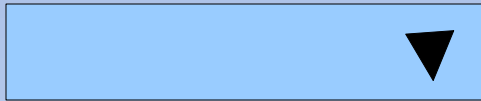
Application API

- Applications provide an XML document that lists the events and actions that this application supports.
- This XML document is added to a list of XML documents that the ruleset knows about

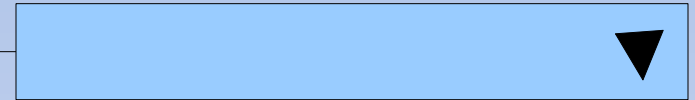
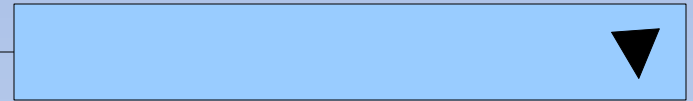


UI Example

Events

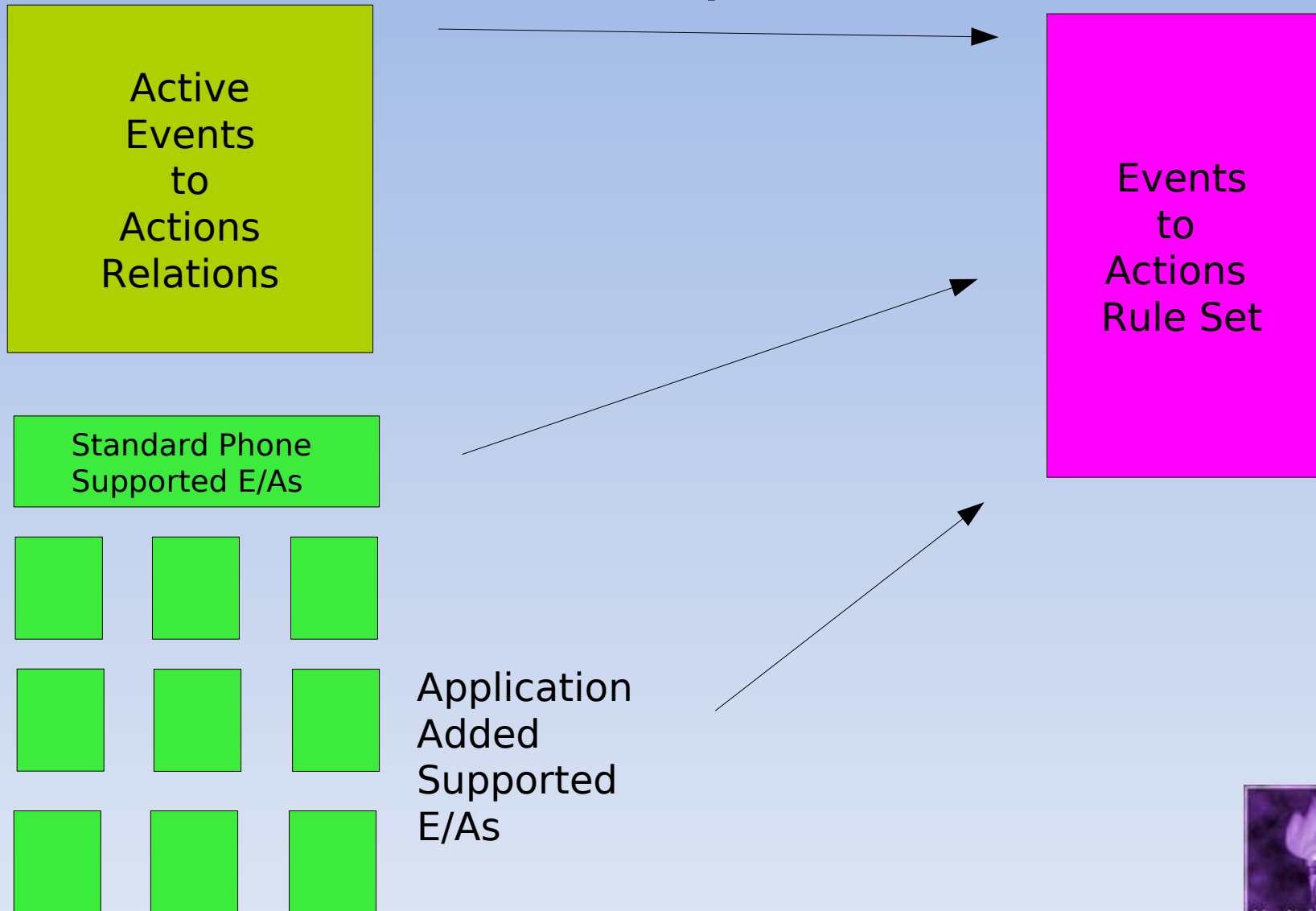


Actions



Add another action

Ruleset Comprised of...



Questions?

Suggestions?



Thank You

