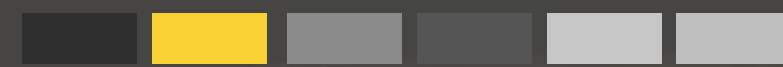




Process Actions

Process Driven Application Development



Actions

Process Driven Application Development Cycle



Content



| Events in a process

| Actions as the answer to to event

| Actions in Petriflow

| External services

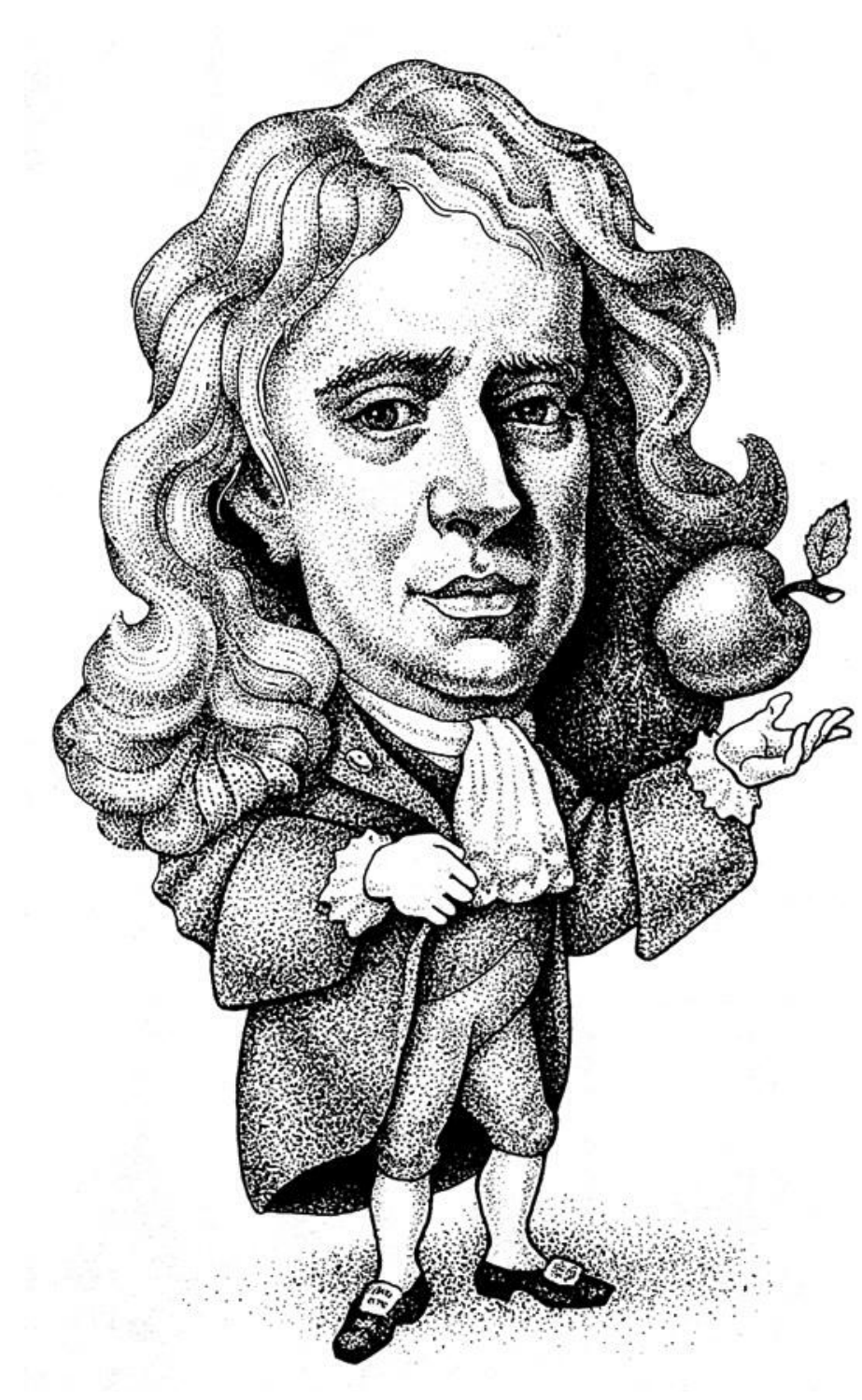
| Demonstration -Mortgage process

“

To every action there is always opposed an equal reaction.

– sir Isaac Newton

”



“

To every event there is always an reaction.

”



Process Events

What can happen in a process



PROCESS

- Marking changed
- Instance created
- Instance destroyed



TRANSITION

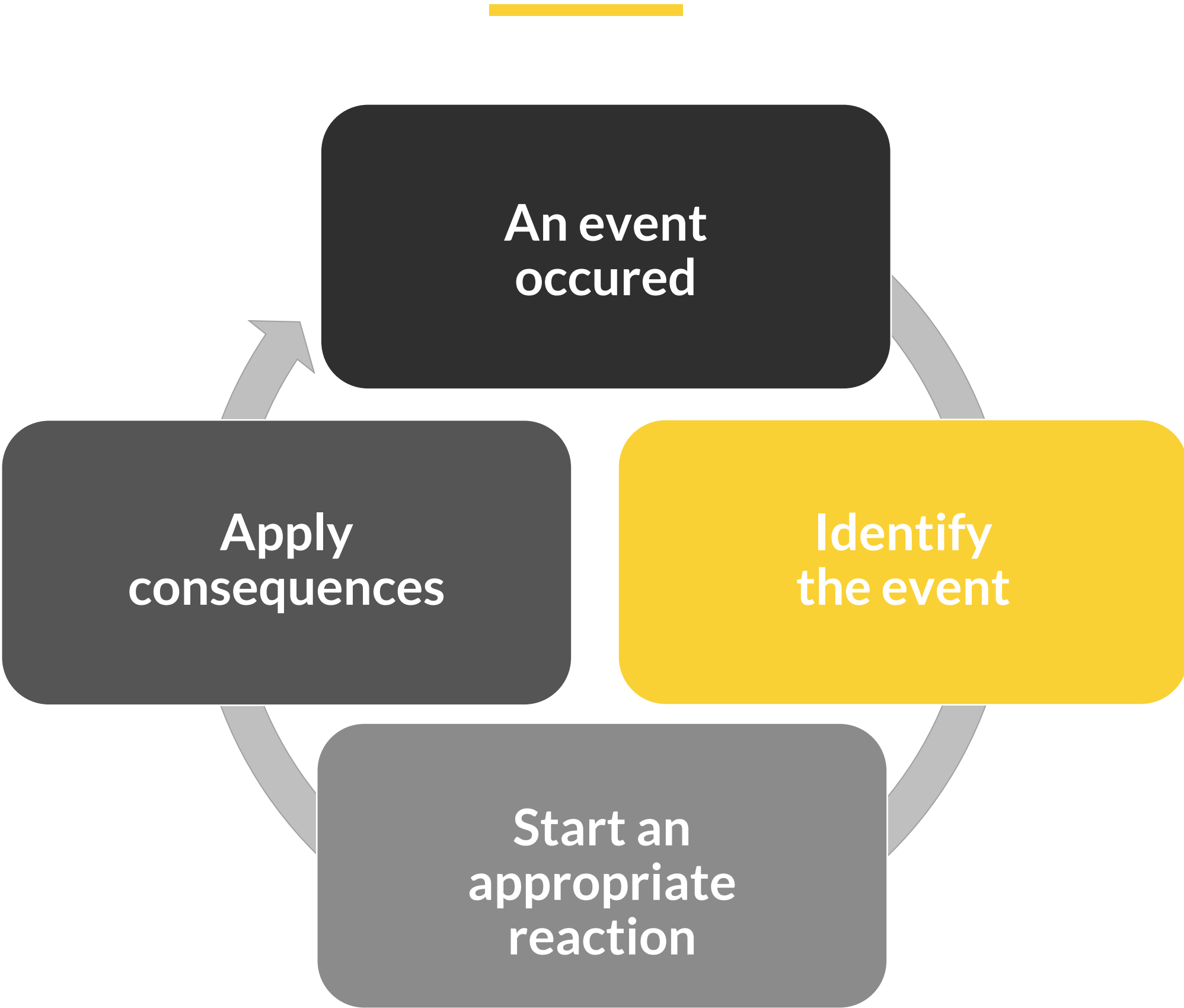
- Fired
- Assigned
- Canceled
- Finished
- Delegated



DATA

- Value is read
- Value is set
- Attribute changed
- Behaviour changed

Event-Reaction cycle



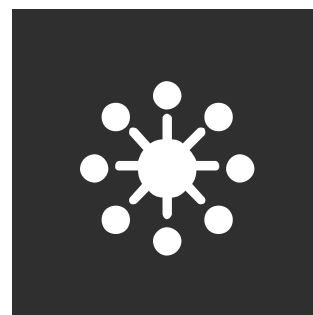
Actions

as the reaction to a event



Small

Small components of a process.



Single purpose

One action is capable of doing only one thing.

Encapsulated

Every action directly interacts with a process instance.



Attachable to any event

Action can be set to response on any published event in a process.

Interacting with external services

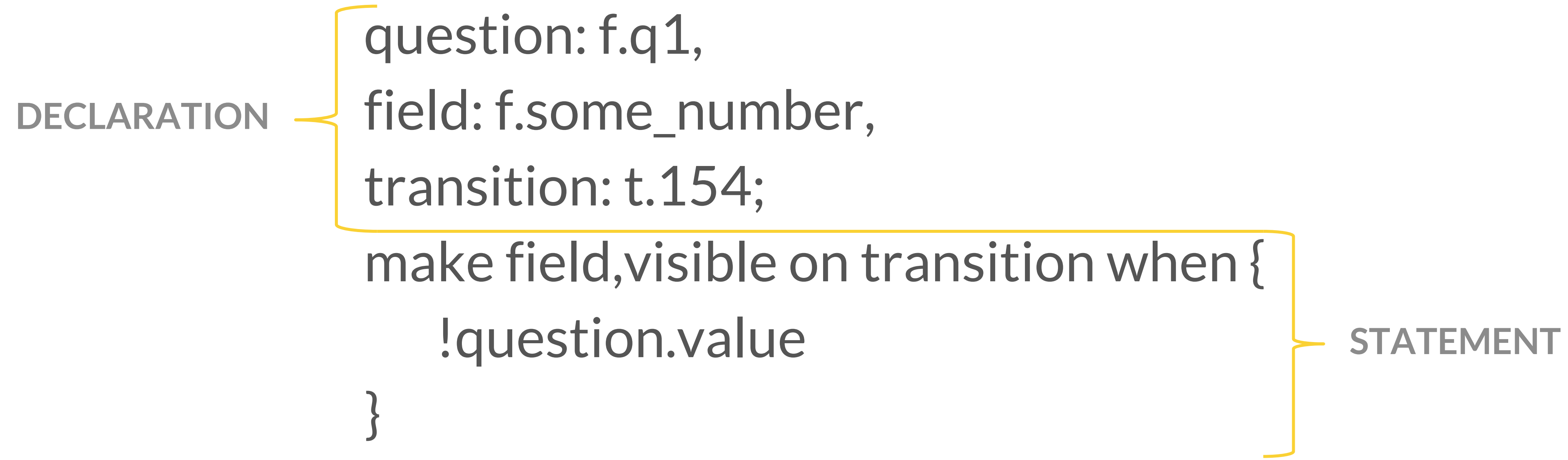
An action can be a call to an external web service.



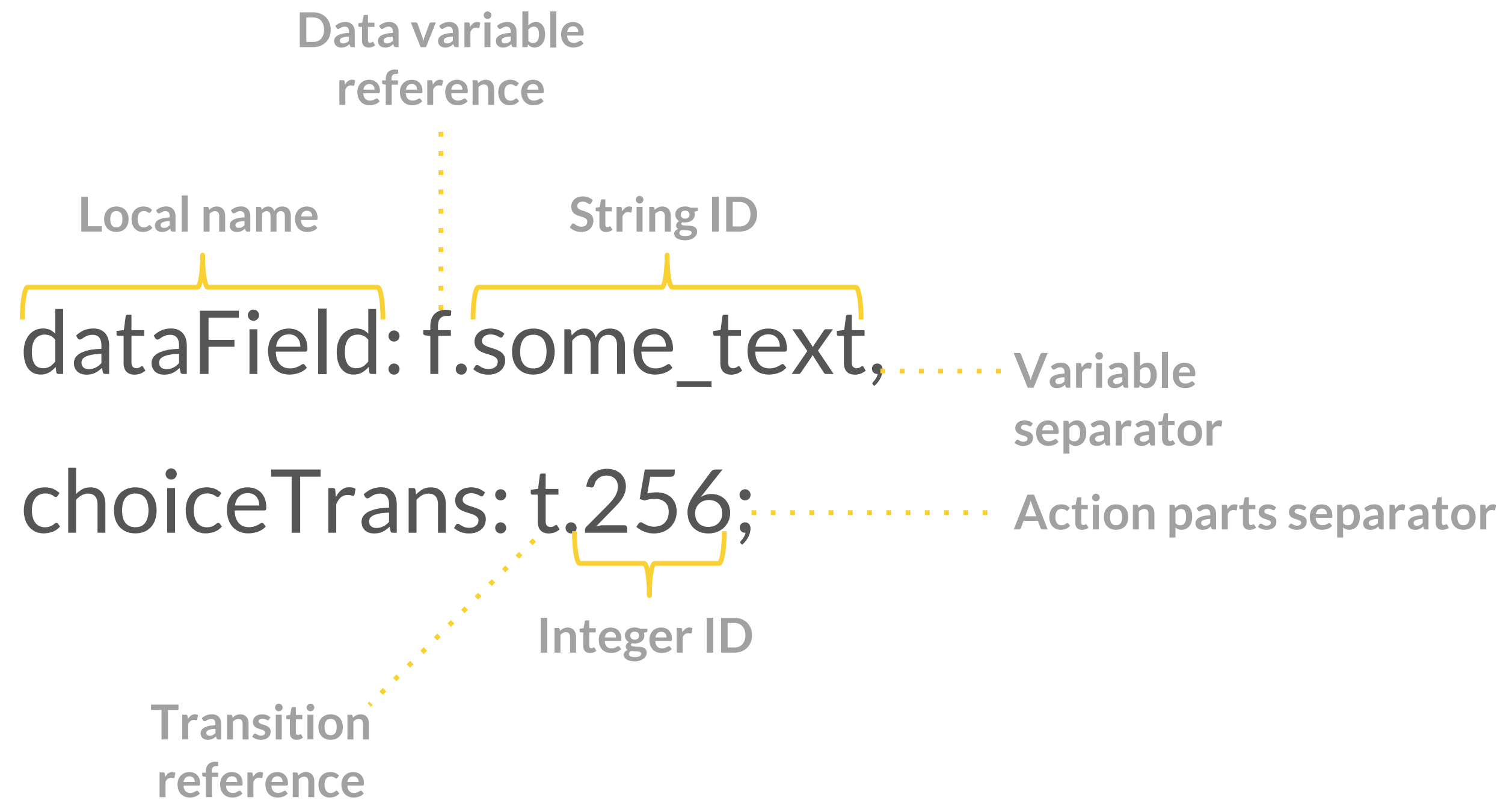
Scoped

Every action has defined scope of operation.

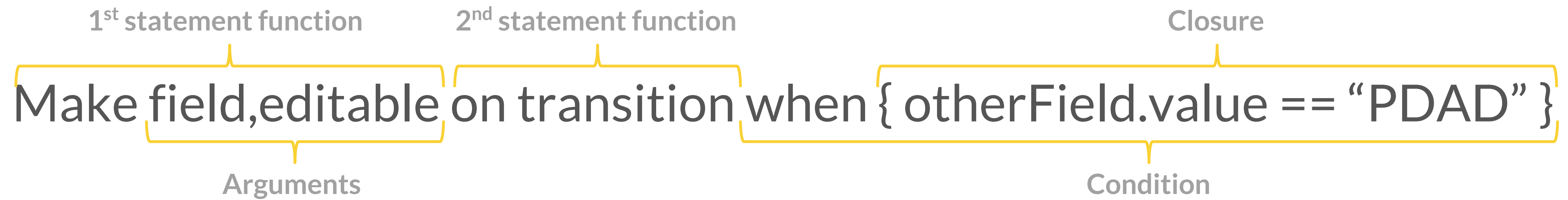
Structure of an action



Declaration



Statement



Built-in statements functions

Functions

- `make _,_ on _ when {}`
- `close []`
- `change _ about {}`
- `change _ choices {}`
- `generate _,_`
- `generate _,_ into _`

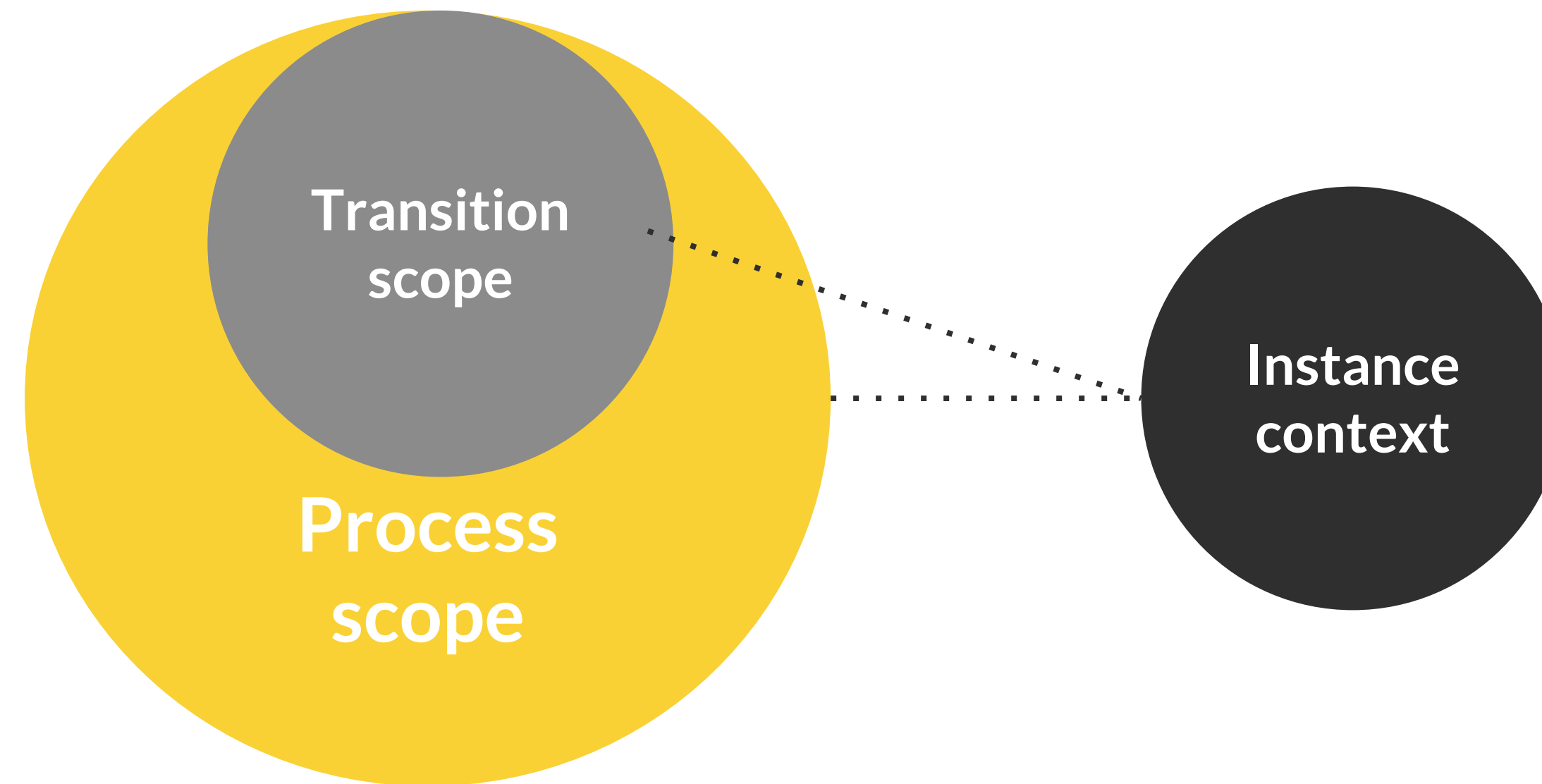
Constants

- Behaviours
 - `editable`
 - `visible`
 - `required`
 - `optional`
 - `hidden`
 - `forbidden`
- `unchanged`
- `always`
- `once`

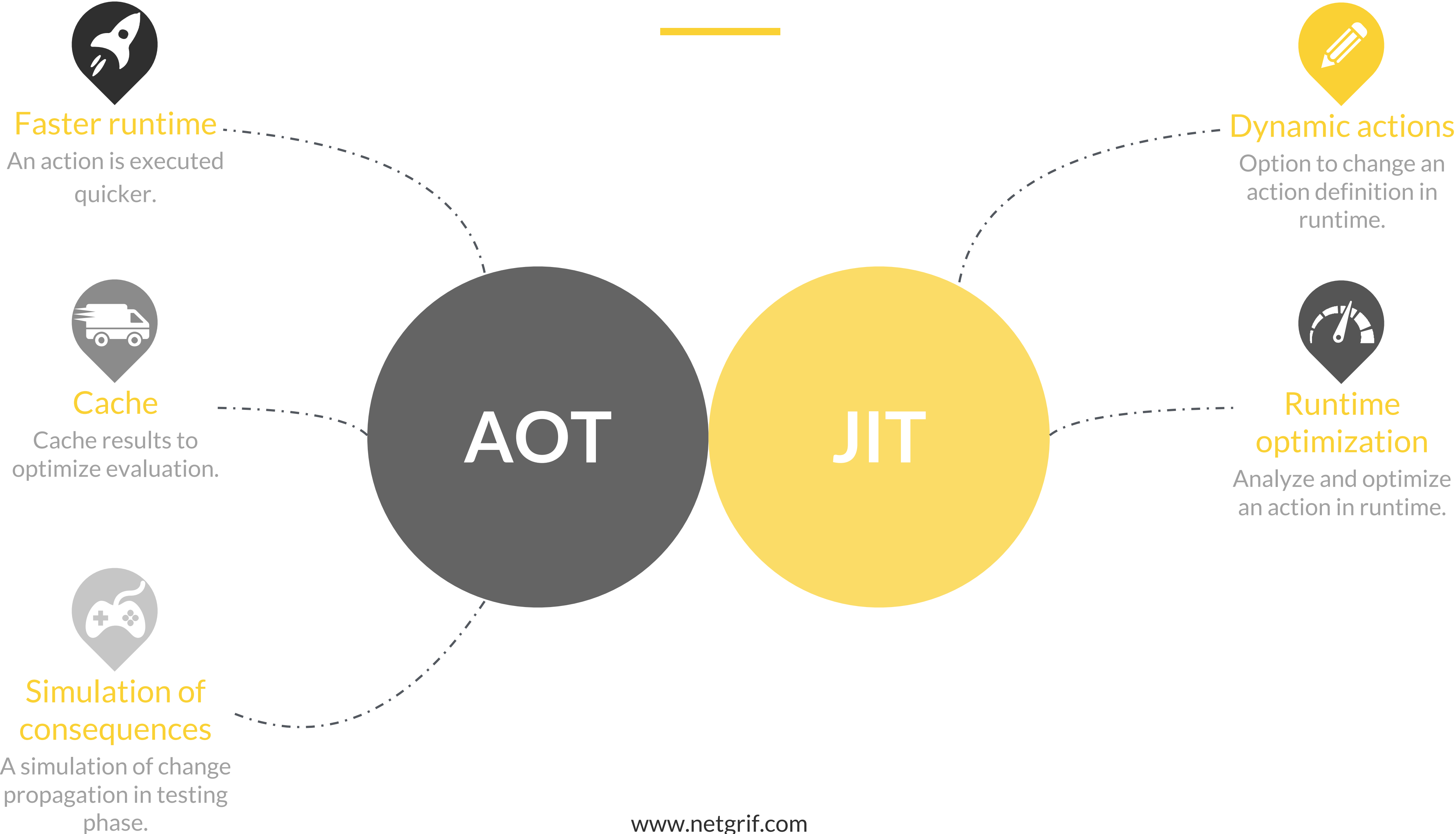
Helper functions

- `cache _,_`
- `cache _`
- `cacheFree _`

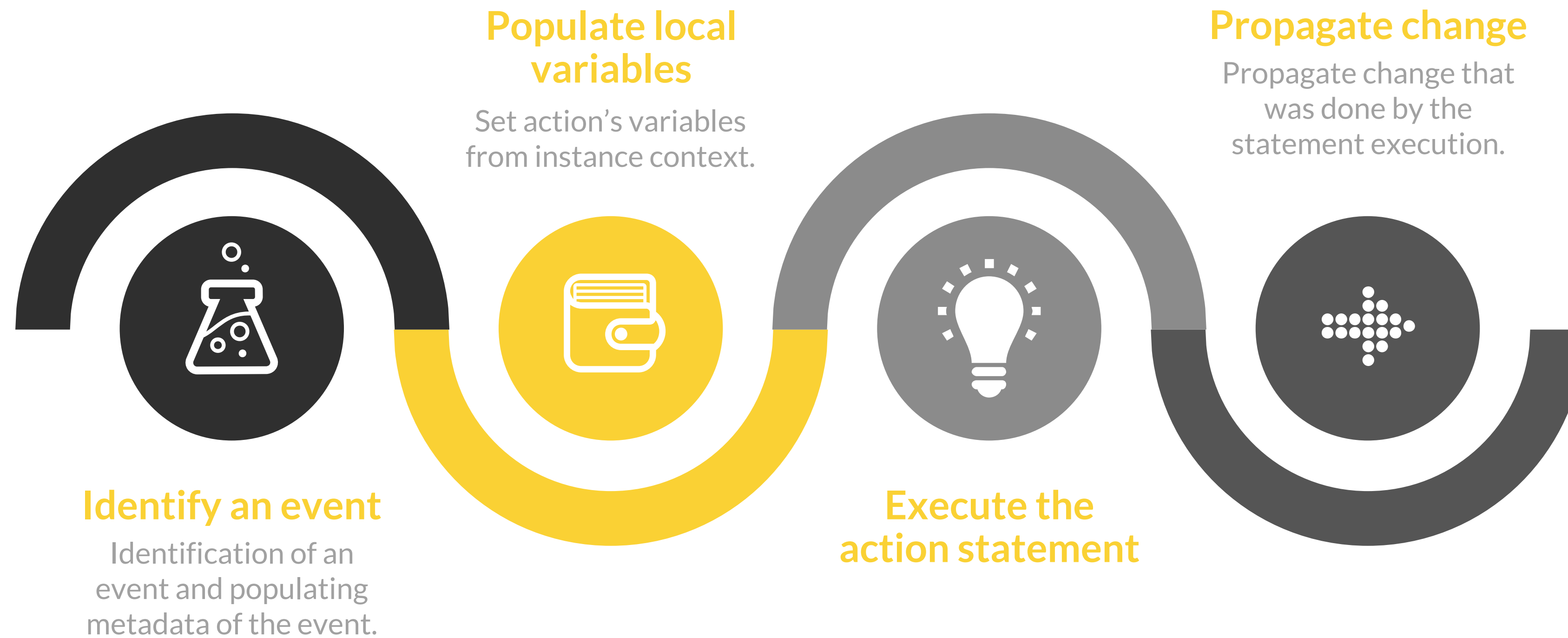
Scope encapsulation



Compilation



Execution of an Action



Action Call Tree

Because callstack wasn't enough



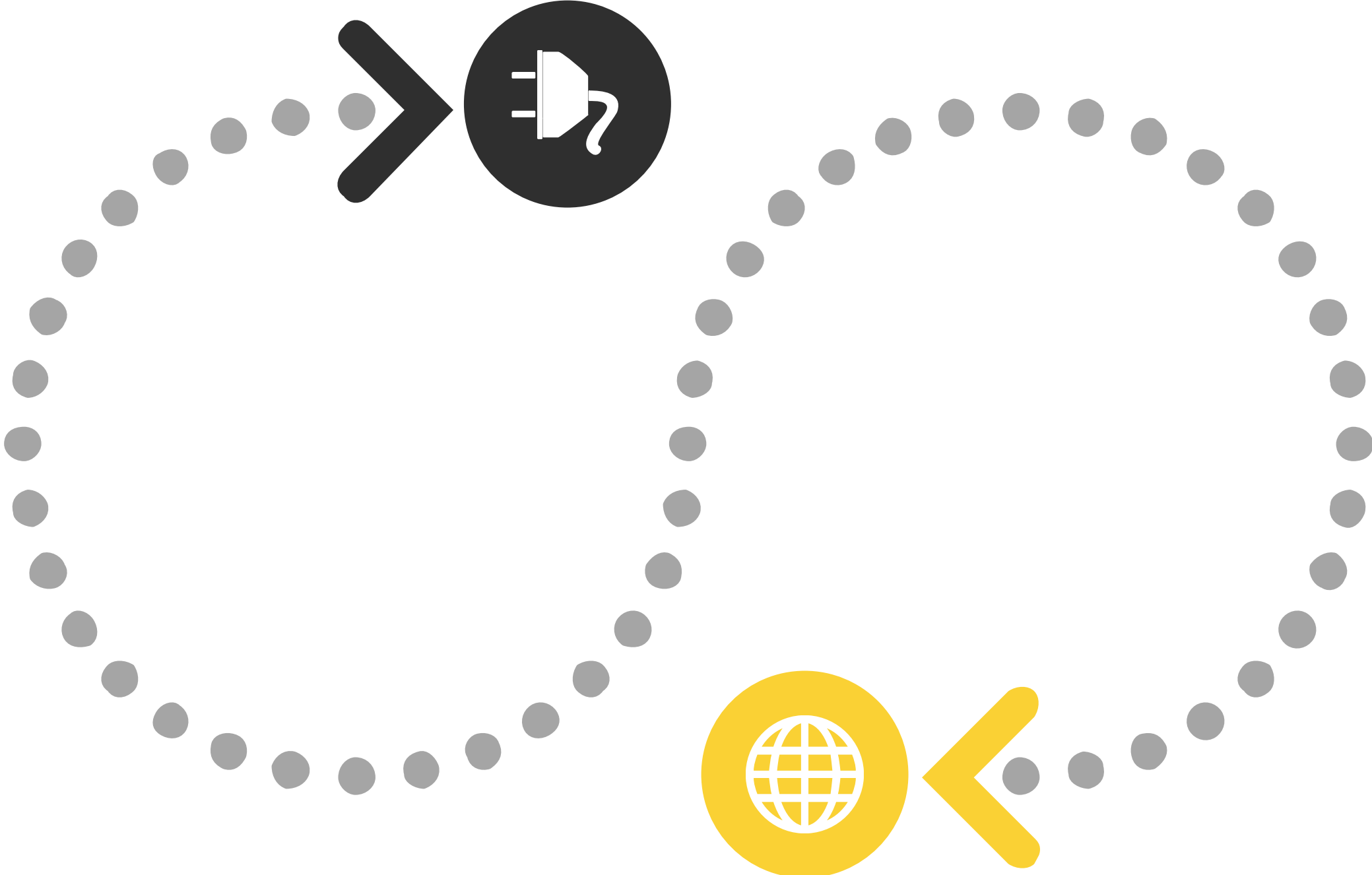
External Services

It's all about integration

Postal code register

Business register of the Slovak Republic

Web services integration





THANK YOU
