

Asami Index

- ▶ Lookups return sequences of bindings
- ▶ Bindings as an ordered sequence
- ▶ Var names in metadata

```
(with-meta  
  [[“Peter” 12]  
   [“Mary” 11]  
   [“Anne” 13]]  
  { :vars [?name ?age] })
```



```
(defn index-add  
  [idx a b c]  
  (update-in idx  
    [a b]  
    (fn [v] (if (seq v) (conj v c) #{c}))))
```

```
(defrecord GraphIndexed [eav ave vea]  
  Graph  
  (graph-add [this entity attribute value]  
    (let [new-eav (index-add eav entity attribute value)]  
      (if (identical? eav new-eav)  
        this  
        (assoc this :eav new-eav  
                  :ave (index-add ave attribute value entity)  
                  :vea (index-add vea value entity attribute)))))
```

```
(resolve-triple [this entity attribute value]  
  (get-from-index this entity attribute value)))
```