

Semantic Dataset

```
<user1> <view> <movie1> .  
<user1> <view> <movie2> .  
<user2> <view> <movie2> .  
<user1> <friend> <user2> .  
<user2> <bookmark> <movie3> .  
<movie4> <sequel> <movie3> .  
<movie5> <isgenre> <action> .  
...
```

Recommender Model

```
user1:  .12 -.82 .23 .01  
user2:  -.11 .91 .12 .21  
user3:  .53 .77 -.51 -.51  
movie1: .29 -.16 -.97 -.15  
movie2: .53 .45 -.98 .03  
action: -.26 .96 -.76 -.01
```

decompose

cluster

Recommender Index

```
root  
*- cluster1  
  *- cluster2  
    *- user1 movie2 action  
    *- user2 movie3 movie1  
    *- movie4  
  *-cluster3  
    *- user3 user4 user5 movie5  
    *- user6
```

Recommendation

```
recommend(user1):  
  
movie3 .976  
movie6 .856  
movie5 .749
```

recommend