Reactor 初期検討

In [1]: **from ReactorDB import** ReactorDB **from Reaction import** *

基本動作確認

まずはReactor DBに接続接続

```
In [2]: reactor = ReactorDB("reactorTest")
```

次に、登場人物のユーザ登録を行う。

(一郎、二郎、三郎、四郎、五郎、花子)

```
In [3]: reactor.addUser('ichiro', 'pass')
reactor.addUser('jiro', 'pass')
reactor.addUser('saburo', 'pass')
reactor.addUser('shiro', 'pass')
reactor.addUser('goro', 'pass')
reactor.addUser('hanako', 'pass')
```

Out[3]: ObjectId('54da355a0661212c263ccc70')

ログインしてユーザIDを取得

```
In [4]: ichiro = reactor.checkUser('ichiro', 'pass')
jiro = reactor.checkUser('jiro', 'pass')
saburo = reactor.checkUser('saburo', 'pass')
shiro = reactor.checkUser('shiro', 'pass')
goro = reactor.checkUser('goro', 'pass')
hanako = reactor.checkUser('hanako', 'pass')
```

ではまず、SeedとなるReactionを作成。

太郎君が「今日いい天気だね、どう思う?」と議題を提出。

Start adding reaction: None(54da355a0661212c263ccc6b) > "It's fine today, don't you think so?" @ 2015/02/11 01:44:11 (None:0.00)

BCC start!

update RF : ichiro(54da355a0661212c263ccc6b) > "lt's fine today, don't you think so?" @ 2015/02/11 01:44:11 (54da355b0661212c263ccc71:0.00)

Cherry score.

temp reaction : ichiro(54da355a0661212c263ccc6b) > "lt's fine today, don't you t hink so?" @ 2015/02/11 01:44:11 (54da355b0661212c263ccc71:1.20)

No target anymore.

BCC done

add complete: ichiro(54da355a0661212c263ccc6b) > "It's fine today, don't you t hink so?" @ 2015/02/11 01:44:11 (54da355b0661212c263ccc71:1.20)

次郎くんがすかさず同意する.

Start adding reaction: None(54da355a0661212c263ccc6c) > "Year, good weather "@ 2015/02/11 01:44:11 (None:0.00)

BCC start!

update RF: jiro(54da355a0661212c263ccc6c) > "Year, good weather" @ 2015/02 /11 01:44:11 (54da355b0661212c263ccc72:0.00)

Cherry score.

temp reaction: jiro(54da355a0661212c263ccc6c) > "Year, good weather" @ 2015 /02/11 01:44:11 (54da355b0661212c263ccc72:1.44)

target reaction: ichiro(54da355a0661212c263ccc6b) > "It's fine today, don't you think so?" @ 2015/02/11 01:44:11 (54da355b0661212c263ccc71:1.20)

new reaction id list: [ObjectId('54da355b0661212c263ccc72')]

update RF: ichiro(54da355a0661212c263ccc6b) > "It's fine today, don't you think so?" @ 2015/02/11 01:44:11 (54da355b0661212c263ccc71:1.20)

temp reaction: ichiro(54da355a0661212c263ccc6b) > "It's fine today, don't you t hink so?" @ 2015/02/11 01:44:11 (54da355b0661212c263ccc71:3.27) No target anymore.

BCC done

add complete: jiro(54da355a0661212c263ccc6c) > "Year, good weather" @ 2015 /02/11 01:44:11 (54da355b0661212c263ccc72:1.44)

In [7]: **print** reactor.getReaction(a).strFormat() **print** reactor.getReaction(b).strFormat()

ichiro(54da355a0661212c263ccc6b) > "It's fine today, don't you think so?" @ 201 5/02/11 01:44:11 (54da355b0661212c263ccc71:3.27) jiro(54da355a0661212c263ccc6c) > "Year, good weather" @ 2015/02/11 01:44: 11 (54da355b0661212c263ccc72:1.44)

引用を受けた太郎くんのRF: Reaction Factorが次郎君より高い。

今度は三郎君が異議を唱える。

Start adding reaction: None(54da355a0661212c263ccc6d) > "I don't think so" @ 2015/02/11 01:44:11 (None:0.00)

BCC start!

update RF: saburo(54da355a0661212c263ccc6d) > "I don't think so" @ 2015/02 /11 01:44:11 (54da355b0661212c263ccc73:0.00)

Cherry score. temp reaction: saburo(54da355a0661212c263ccc6d) > "I don't think so" @ 2015

/02/11 01:44:11 (54da355b0661212c263ccc73:1.44)
target reaction: ichiro(54da355a0661212c263ccc6b) > "It's fine today, don't you think so?" @ 2015/02/11 01:44:11 (54da355b0661212c263ccc71:3.27)

new reaction id list: [ObjectId('54da355b0661212c263ccc72'), ObjectId('54da355b0661212c263ccc73')]

update RF: ichiro(54da355a0661212c263ccc6b) > "It's fine today, don't you think so?" @ 2015/02/11 01:44:11 (54da355b0661212c263ccc71:3.27)

temp reaction: ichiro(54da355a0661212c263ccc6b) > "It's fine today, don't you t hink so?" @ 2015/02/11 01:44:11 (54da355b0661212c263ccc71:5.35)

No target anymore.

BCC done

add complete: saburo(54da355a0661212c263ccc6d) > "I don't think so" @ 2015/02/11 01:44:11 (54da355b0661212c263ccc73:1.44)

分からない、という四郎君がしゃしゃり出てくる。

Start adding reaction : None(54da355a0661212c263ccc6e) > "I don't know, coz I' m inside whole day" @ 2015/02/11 01:44:11 (None:0.00)

BCC start!

update RF: shiro(54da355a0661212c263ccc6e) > "I don't know, coz I'm inside whole day" @ 2015/02/11 01:44:11 (54da355b0661212c263ccc74:0.00) Cherry score.

temp reaction: shiro(54da355a0661212c263ccc6e) > "I don't know, coz I'm inside whole day" @ $2015/02/11\ 01:44:11\ (54da355b0661212c263ccc74:1.20)$ target reaction: ichiro(54da355a0661212c263ccc6b) > "It's fine today, don't you

think so?" @ $2015/02/11\ 01:44:11\ (54da355b0661212c263ccc71:5.35)$ new reaction id list: [ObjectId('54da355b0661212c263ccc72'), ObjectId('54da355b0661212c263ccc74')] update RF: ichiro(54da355a0661212c263ccc6b) > "It's fine today, don't you think so?" @ $2015/02/11\ 01:44:11\ (54da355b0661212c263ccc71:5.35)$ temp reaction: ichiro(54da355a0661212c263ccc6b) > "It's fine today, don't you think so?" @ $2015/02/11\ 01:44:11\ (54da355b0661212c263ccc71:6.79)$ No target anymore.

BCC done

add complete: shiro(54da355a0661212c263ccc6e) > "I don't know, coz I'm inside whole day" @ 2015/02/11 01:44:11 (54da355b0661212c263ccc74:1.20) ichiro(54da355a0661212c263ccc6b) > "It's fine today, don't you think so?" @ 201 5/02/11 01:44:11 (54da355b0661212c263ccc71:6.79) shiro(54da355a0661212c263ccc6e) > "I don't know, coz I'm inside whole day" @ 2

shiro(54da355a0661212c263ccc6e) > "I don't know, coz I'm inside whole day" @ 2015/02/11 01:44:11 (54da355b0661212c263ccc74:1.20)

反対意見でも、分からないという意見でも、太郎君のSeedのReaction Factorはぐんぐん上昇。

寡黙な五郎君が黙って太郎くんに反対する。

```
In [16]: e = reactor.addReaction(Reaction(
           { '_id' : None,
            'time': None,
            'author_id' : goro,
            'author_name': None,
            'target_id' : a.
            'reactionFactor': 0.0,
            'comment':"".
            'evaluation': EVAL_CONS,
            'strReactionIdList': '' }))
        print reactor.getReaction(a).strFormat()
        print reactor.getReaction(e).strFormat()
        Start adding reaction: None(54da355a0661212c263ccc6f) > "" @ 2015/02/11 0
        1:49:25 (None:0.00)
        BCC start!
        update RF: goro(54da355a0661212c263ccc6f) > ""@ 2015/02/11 01:49:25 (54
        da36950661212c263ccc77:0.00)
        Cherry score.
        temp reaction: goro(54da355a0661212c263ccc6f) > "" @ 2015/02/11 01:49:25
         (54da36950661212c263ccc77:1.20)
        target reaction: ichiro(54da355a0661212c263ccc6b) > "It's fine today, don't you
        think so?" @ 2015/02/11 01:44:11 (54da355b0661212c263ccc71:13.29)
        new reaction id list: [ObjectId('54da355b0661212c263ccc72'), ObjectId('54da355
        b0661212c263ccc73'), ObjectId('54da355b0661212c263ccc74'), ObjectId('54da
        355b0661212c263ccc75'), ObjectId('54da355b0661212c263ccc73'), ObjectId('5
        4da36950661212c263ccc77')]
        update RF: ichiro(54da355a0661212c263ccc6b) > "It's fine today, don't you think
        so?"@ 2015/02/11 01:44:11 (54da355b0661212c263ccc71:13.29)
        temp reaction: ichiro(54da355a0661212c263ccc6b) > "It's fine today, don't you t
        hink so?" @ 2015/02/11 01:44:11 (54da355b0661212c263ccc71:14.73)
        No target anymore.
        BCC done
        add complete: goro(54da355a0661212c263ccc6f) > "" @ 2015/02/11 01:49:25
        (54da36950661212c263ccc77:1.20)
        ichiro(54da355a0661212c263ccc6b) > "It's fine today, don't you think so?" @ 201
        5/02/11 01:44:11 (54da355b0661212c263ccc71:14.73)
        goro(54da355a0661212c263ccc6f) > "" @ 2015/02/11 01:49:25 (54da3695066
```

五郎君の無言の異議でも太郎くんのReaction Factorは上昇しているのがわかる。

太郎君の発言に対するReaction Listを列挙してみる。

1212c263ccc77:1.20)

多階層Reaction

こんどは、異議を唱えた三郎君に花子さんが同調する。

Start adding reaction: None(54da355a0661212c263ccc70) > "Me too. It's cloudy today." @ 2015/02/11 01:49:30 (None:0.00)

BCC start!

update RF: hanako(54da355a0661212c263ccc70) > "Me too. It's cloudy today." @ $2015/02/11\ 01:49:30\ (54da369a0661212c263ccc78:0.00)$ Cherry score.

temp reaction: hanako(54da355a0661212c263ccc70) > "Me too. It's cloudy today ." @ $2015/02/11\ 01:49:30\ (54da369a0661212c263ccc78:1.44$)

target reaction: saburo(54da355a0661212c263ccc6d) > "I don't think so" @ 201 5/02/11 01:44:11 (54da355b0661212c263ccc73:3.51)

new reaction id list: [ObjectId('54da355b0661212c263ccc76'), ObjectId('54da369 a0661212c263ccc78')]

update RF: saburo(54da355a0661212c263ccc6d) > "I don't think so" @ 2015/02 /11 01:44:11 (54da355b0661212c263ccc73:3.51)

temp reaction : saburo(54da355a0661212c263ccc6d) > "I don't think so" @ 2015 /02/11 01:44:11 (54da355b0661212c263ccc73:5.59)

target reaction: ichiro(54da355a0661212c263ccc6b) > "It's fine today, don't you think so?" @ 2015/02/11 01:44:11 (54da355b0661212c263ccc71:14.73)

new reaction id list: [ObjectId('54da355b0661212c263ccc72'), ObjectId('54da355b0661212c263ccc73'), ObjectId('54da355b0661212c263ccc74'), ObjectId('54da355b0661212c263ccc73'), ObjectId('54da355b0661212c263ccc73'), ObjectId('54da355b0661212c263ccc73'), ObjectId('54da355b0661212c263ccc73')]

update RF: ichiro(54da355a0661212c263ccc6b) > "It's fine today, don't you think so?" @ $2015/02/11\ 01:44:11\ (54da355b0661212c263ccc71:14.73)$

temp reaction: ichiro(54da355a0661212c263ccc6b) > "It's fine today, don't you t hink so?" @ 2015/02/11 01:44:11 (54da355b0661212c263ccc71:22.77) No target anymore.

BCC done

add complete: hanako(54da355a0661212c263ccc70) > "Me too. It's cloudy today ." @ 2015/02/11 01:49:30 (54da369a0661212c263ccc78:1.44)

ichiro(54da355a0661212c263ccc6b) > "It's fine today, don't you think so?" @ 201 5/02/11 01:44:11 (54da355b0661212c263ccc71:22.77)

saburo(54da355a0661212c263ccc6d) > "I don't think so" @ 2015/02/11 01:44:1 1 (54da355b0661212c263ccc73:5.59)

hanako(54da355a0661212c263ccc70) > "Me too. It's cloudy today." @ 2015/02/11 01:49:30 (54da369a0661212c263ccc78:1.44)

花子さんが同意したことで、太郎君、三郎君のRFも上昇している。

Reaction Chain

花子さんの発言をさかのぼり、太郎君→三郎君→花子さんの発言を全て表示してみる。

In [19]: chain = reactor.getReactionChain(reactor.getReaction(f))

In [20]: **for** r **in** reversed(chain): **print** r.strFormat()

ichiro(54da355a0661212c263ccc6b) > "It's fine today, don't you think so?" @ 201 5/02/11 01:44:11 (54da355b0661212c263ccc71:22.77)

saburo(54da355a0661212c263ccc6d) > "I don't think so" @ 2015/02/11 01:44:1 1 (54da355b0661212c263ccc73:5.59)

hanako(54da355a0661212c263ccc70) > "Me too. It's cloudy today." @ 2015/02/11 01:49:30 (54da369a0661212c263ccc78:1.44)