

EXAMPLE with the German Language 'Gerd ist hungrig1'

Protocol of a live session! (See video)

```
gerd@gerd-ub2:~/env/komega/tst$ python3 komega-v08e.py
```

1 is START

2 is EDIT P and V

3 is EDIT S

4 is EDIT X

5 is SIMULATION

6 is EVALUATION

7 is STOP

Enter a Number [1-7] for Menu Option

2

!!You have selected the state :

EDIT P and V

Here you can describe your problem and your vision with regard to different questions.

You will be asked to the following topics:

1 is PROBLEM

2 is VISION

3 is REGION

4 is TIME

5 is PERSONS (Individuals or Roles)

Here is a list of all Problem-Vision documents so far:

['MaryBook1', 'MariaBibliothek1', 'MariaBuch1', 'Testen', 'PeterTanken7', 'PeterTanken8',
'PeterTanken4', 'pvr1', 'PeterMussTanken', 'PeterTanken5', 'pvd1', 'PeterTanken6', 'PeterTanken1']

Enter a NAME for your problem

GerdIstHungrig1

Feedback Problem Name :

GerdIstHungrig1

Enter your PROBLEM in plain text

Es ist Montag Mittag. Gerd ist hungrig

Feedback Problem Now :

Es ist Montag Mittag. Gerd ist hungrig

Enter your VISION of a better state in the future in plain text

Gerd ist nicht mehr hungrig

Feedback Problem Future :

Gerd ist nicht mehr hungrig

Enter the NAME of the CITY or REGION you are in

Frankfurt am Main, Frankfurt University of Applied Sciences

Feedback Problem Region :

Frankfurt am Main, Frankfurt University of Applied Sciences

TIME model [From, Until,Cycleunit [Y or M or D or H]]

2020-10-15 12:00 am, 2020-10-15 3 pm, H

Feedback Problem TimeModel :
['2020-10-15 12:00 am', ' 2020-10-15 3 pm', ' H']

Which kinds of PERSONS (individuals or roles) are important? Write a list, comma separated please :

Gerd, Mitarbeiter eines Geschäfts
Feedback Problem Persons :
['Gerd', ' Mitarbeiter eines Geschäfts']

The final problem document with the name
GerdIstHungrig1

is the following one:
{'problem': 'Es ist Montag Mittag. Gerd ist hungrig', 'vision': 'Gerd ist nicht mehr hungrig', 'region': 'Frankfurt am Main, Frankfurt University of Applied Sciences', 'time': '2020-10-15 12:00 am, 2020-10-15 3 pm, H', 'persons': 'Gerd, Mitarbeiter eines Geschäfts'}
STOP MAIN LOOP != 'Y', CONTINUE = 'Y'

```
n
gerd@gerd-ub2:~/env/komega/tst$ python3 komega-v08e.py
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Here is a list of all Problem-Vision documents so far:
['MaryBook1', 'GerdIstHungrig1', 'MariaBibliothek1', 'MariaBuch1', 'Testen', 'PeterTanken7', 'PeterTanken8', 'PeterTanken4', 'pvr1', 'PeterMussTanken', 'PeterTanken5', 'pvd1', 'PeterTanken6', 'PeterTanken1']

```
Enter a NAME for your problem
Traceback (most recent call last):
  File "komega-v08e.py", line 149, in <module>
    kc.pub.userinput(message)
  File "/home/gerd/env/komega/tst/kcv8e.py", line 49, in userinput
    self.opt=input(message)
EOFError
gerd@gerd-ub2:~/env/komega/tst$ python3 komega-v08e.py
1 is START
```

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3

!!You have selected the state :

EDIT S

Here You can describe an actual state S related to your problem.

Here is a list of all state descriptions so far:

['MaryBook1', 'MariaBibliothek1', 'MariaBuch1', 'philip1', 'PeterTanken7', 'PeterTanken8']

Do You want to load a document S? [Y,N]

N

Enter a NAME for the new state description:

GerdIstHungrig1

Feedback STATE Name :

GerdIstHungrig1

Enter an expression for your state description in plain text :

Gerd ist hungrig

Feedback Your last expression :

Gerd ist hungrig

Feedback Your document S so far :

{'Gerd ist hungrig'}

STOP Editing S != Y', CONTINUE = 'Y'

Y

Enter an expression for your state description in plain text :

Es ist Montag Mittag um 12 am

Feedback Your last expression :

Es ist Montag Mittag um 12 am

Feedback Your document S so far :

{'Gerd ist hungrig', 'Es ist Montag Mittag um 12 am'}

STOP Editing S != Y', CONTINUE = 'Y'

Y

Enter an expression for your state description in plain text :

Gerd ist an der Frankfurt University of Applied Sciences

Feedback Your last expression :

Gerd ist an der Frankfurt University of Applied Sciences

Feedback Your document S so far :

{'Gerd ist hungrig', 'Es ist Montag Mittag um 12 am', 'Gerd ist an der Frankfurt University of Applied Sciences'}

STOP Editing S != Y', CONTINUE = 'Y'

n

Your final State Description document is now :

{'Gerd ist hungrig', 'Es ist Montag Mittag um 12 am', 'Gerd ist an der Frankfurt University of Applied Sciences'}

STOP MAIN LOOP != 'Y', CONTINUE = 'Y'

Y

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4

!!You have selected the state :

EDIT X

Here You can edit some change rules X to apply to an actual state S.

Here is a list of all rule documents so far:

['MaryBook1', 'MariaBuch1', 'MariaBib2', 'MariaBib1', 'MariaBib3']

Do You want to load a document X? [Y,N]

N

Enter the name of the new rules document:

GerdIstHungrig1

CONDITION :

Gerd ist hungrig

Your condition set so far : {'Gerd ist hungrig'}

CONTINUE Editing Condition = 'Y', STOP != 'Y'

Y

CONDITION :

Es ist Montag Mittag um 12 am

Your condition set so far : {'Gerd ist hungrig', 'Es ist Montag Mittag um 12 am'}

CONTINUE Editing Condition = 'Y', STOP != 'Y'

Y

CONDITION :

Gerd ist an der Frankfurt University of Applied Sciences

Your condition set so far : {'Gerd ist hungrig', 'Es ist Montag Mittag um 12 am', 'Gerd ist an der Frankfurt University of Applied Sciences'}

CONTINUE Editing Condition = 'Y', STOP != 'Y'

n

Enter a probability between 0.0 and 1.0

1.0

Your single rule buffer : [{'Gerd ist hungrig', 'Es ist Montag Mittag um 12 am', 'Gerd ist an der Frankfurt University of Applied Sciences'}, '1.0']

EFFECT- :

none

Your set minus so far : {'none'}

CONTINUE Editing EMinus = 'Y', STOP != 'Y'

n

EFFECT+ :

Gerd geht zum Griechen um die Ecke

Your set plus so far : {'Gerd geht zum Griechen um die Ecke'}

CONTINUE Editing EPlus = 'Y', STOP != 'Y'

n

Your Rules document with name GerdIstHungrig1 is now :

[{'CONDITION': {'Gerd ist hungrig', 'Es ist Montag Mittag um 12 am', 'Gerd ist an der Frankfurt University of Applied Sciences'}, 'PROBABILITY': '1.0', 'EFFECT-': {'none'}, 'EFFECT+': {'Gerd geht zum Griechen um die Ecke'}}]

CONTINUE Editing X = 'Y', STOP != 'Y'

n

STOP MAIN LOOP != 'Y', CONTINUE = 'Y'

Y

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5

!!You have selected the state :

SIMULATION

Here You can run a simulation SIM to check what happens with your initial state S when the change rules X will be applied repeatadly on the state S.

Do You want to load a state description S? [Y,N]

Y

Here is the list of all stored state descriptions so far :

['MaryBook1', 'GerdIstHungrig1', 'MariaBibliothek1', 'MariaBuch1', 'philip1', 'PeterTanken7', 'PeterTanken8']

Enter a name for the document you want to load :

GerdIstHungrig1

Your State Description document is as follows :

{'Gerd ist hungrig', 'Es ist Montag Mittag um 12 am', 'Gerd ist an der Frankfurt University of Applied Sciences'}

Do You want to load a rule document X? [Y,N]

Y

Here is the list of all stored rule documents so far :

['MaryBook1', 'GerdIstHungrig1', 'MariaBuch1', 'MariaBib2', 'MariaBib1', 'MariaBib3']

Enter a name for the rule document you want to load :

GerdIstHungrig1

Your Rules document is as follows :

[{'CONDITION': {'Gerd ist hungrig', 'Es ist Montag Mittag um 12 am', 'Gerd ist an der Frankfurt University of Applied Sciences'}, 'PROBABILITY': '1.0', 'EFFECT-': {'none'}, 'EFFECT+': {'Gerd geht zum Griechen um die Ecke'}}]

Set S given :

{'Gerd ist hungrig', 'Es ist Montag Mittag um 12 am', 'Gerd ist an der Frankfurt University of Applied Sciences'}

Actual rule :

{'CONDITION': {'Gerd ist hungrig', 'Es ist Montag Mittag um 12 am', 'Gerd ist an der Frankfurt University of Applied Sciences'}, 'PROBABILITY': '1.0', 'EFFECT-': {'none'}, 'EFFECT+': {'Gerd geht zum Griechen um die Ecke'}}]

Set S after Remove :

{'Gerd ist hungrig', 'Es ist Montag Mittag um 12 am', 'Gerd ist an der Frankfurt University of Applied Sciences'}

Set S after Union :

{'Gerd ist hungrig', 'Es ist Montag Mittag um 12 am', 'Gerd geht zum Griechen um die Ecke', 'Gerd ist an der Frankfurt University of Applied Sciences'}

New set S :

{'Gerd ist hungrig', 'Es ist Montag Mittag um 12 am', 'Gerd geht zum Griechen um die Ecke', 'Gerd ist an der Frankfurt University of Applied Sciences'}

CONTINUE Simulation = 'Y', STOP != 'Y'

n

STOP MAIN LOOP != 'Y', CONTINUE = 'Y'

n