

Figure 1: data-nodes arround a context domain space (mind's eye)

ACTIVE-MEMORY

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Short Description

Procreating data, under fitness consideration, in form of **semantic** micro-structures within a conceptional domain. controlled by a human users request.

New Terms

${f micro-structure}$

a micro-structure is a abstract entity describing **any concept** the information is obtained via **WORD-NET**

key-stone

a key-stone is the root of a micro-structure

example:

a micro-structure with the key-stone existence

<existence>

- Cosmos
- Unit
- Universe
- Physical_entity
- Object
- Physical_object
- Nature
- Macrocosm
- Natural_order
- World
- Whole
- Natural_object
- Closed_universe
- Existence
- Creation
- Entity

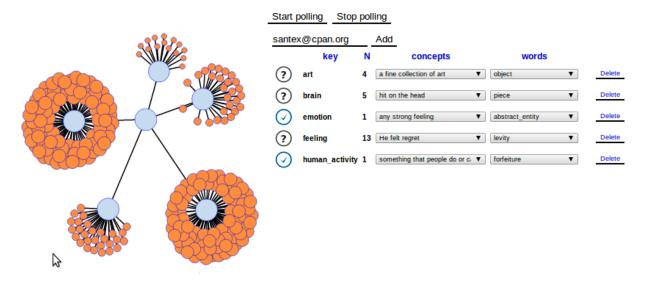


Figure 2: making micro-structures

0.1 micro-structure properties

- a micro-structure lives as a perl module (\$micro new existence)
- most human concepts available
- combine modular
- access via terminal
- micro-structure have access to the data-plug-in's (wiki, google, torrent)
- the micro-structure is used as permanent query to scan for data.

0.2 active-memory plug-ins

- plug-ins are like feeds to just compatible to micro-structure's
- currently in use wiki plug-in (google planed)

1 Fitness

Variables \rightarrow

- C-total Word-net concept sum
- C-established used concept sum
- generation
- spawning links sum in individual
- tag-number sum in individual
- tag-ratios across total data population in micro-structure
- tag-density across total data population in micro-structure
- media items ratio (links/amount media items) (ogg, image, pdf)
- special items ratio (links/amount special items) (category, list)
- amount non linking/spawning individuals/

2 continuum of concepts within a micro-structure

- ullet ightarrow object
- natural object—physical object—celestial body—heavenly body
- planet
- outer planet
- jovian planet
- superior planet
- major planet
- gas giant
- jupiter
- Iapetus
- moon
- satellite
- heavenly body—celestial body—physical object—natural object
- $\bullet \rightarrow \mathbf{object};$

3 Project code structure

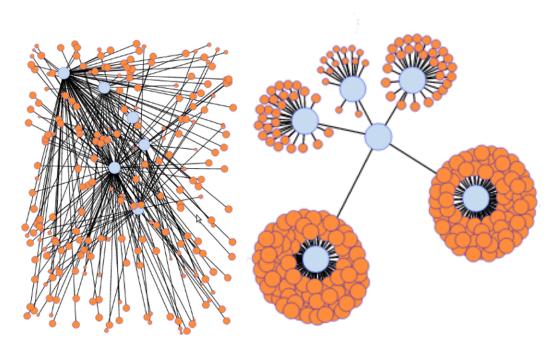
- ullet ightarrow perl module
- $\rightarrow \mathbf{memcache}$
- $\rightarrow \mathbf{couchdb}$
- $\rightarrow \mathbf{wordnet}$

experimental Implementation

- ullet ightarrow ui: http://www.quantup.com
- ullet ightarrow data-base: http://algoservice.com:5984/wikilist/
- $\bullet \ \to git: \ https://github.com/santex/active-memory$

5 Network

Data in disorganised data network — The same network as micro-structure



Data in disorganised data network — The same network as micro-structure

6 A sample

```
hagen@sante12:~$ micro new hacker;
hagen@sante12:~$ micro hacker
physical_object
hagen@sante12:~$ micro hacker
person
hagen@sante12:~$ micro hacker
computer_user
hagen@sante12:~$ micro hacker
programmer
hagen@sante12:~$ micro hacker
someone
hagen@sante12:~$ micro hacker
organism
hagen@sante12:~$ micro hacker
engineer
now use > $ micro hacker 20
animate_thing
programmer
object
coder
computer_programmer
physical_object
living_thing
entity
software_engineer
physical_entity
engineer
cause
individual
applied_scientist
being
hacker
somebody
{\tt technologist}
causal_agent
whole
```

7 A sample with data

```
$ micro new constallation;
$ micro constallation 103;
 \verb"andromed" a
 antlia
 apus
 aquarius
 aquila
 ara
 argo
aries
auriga
bootes
 caelum
 cancer
 canis_major
 canis_minor
 capricorn
 capricornus
 carina
 cassiopeia
 centaur
 centaurus
 cepheus
 cetus
 chamaeleon
 chameleon
 charioteer
 circinus
 columba
 coma_berenices
 constellation
 corona_borealis
 corvus
 crane
 crater
 crow
 crux
 crux_australis
 cygnus
 delphinus
 dorado
 dove
```

 ${\tt draco}$

dragon

entity

eridanus

fornax

gemini

great_bear

great_dog

grus

hercules

hunter

hydra

hydrus

indus

leo

lepus

libra

little_bear

little_dog

lupus

lyra

mensa

 ${\tt microscopium}$

 ${\tt musca}$

natural_object

norma

object

octans

ophiuchus

orion

pavo

pegasus

perseus

phoenix

physical_entity

physical_object

pictor

pisces

puppis

pyxis

 ${\tt reticulum}$

sagitta

sagittarius

scorpio

scorpius

sculptor

```
serpens
   {\tt snake}
   southern_cross
   southern_triangle
   taurus
   telescopium
   triangle
   triangulum
   triangulum_australe
   tucana
   unit
   ursa_major
   ursa_minor
   vela
   virgo
   volans
   vulpecula
get data this shell script only to balance load regular command
(micro-wiki virgo)
.....
#!/bin/bash
IFS_BAK=$IFS;
IFS=$'\n';
array=( $(micro constallation 105) );
n=0;
for item in ${array[0]}
do
var=$(ps aux | grep -c perl);
if [ 80 -lt $var ];
then
 echo $n;
 sleep 10;
else
 micro-wiki $item &
fi
 let n+=1
done;
echo $n;
```

IFS=\$IFS_BAK;

downloading

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sample out images (actually the image results are times 5)

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