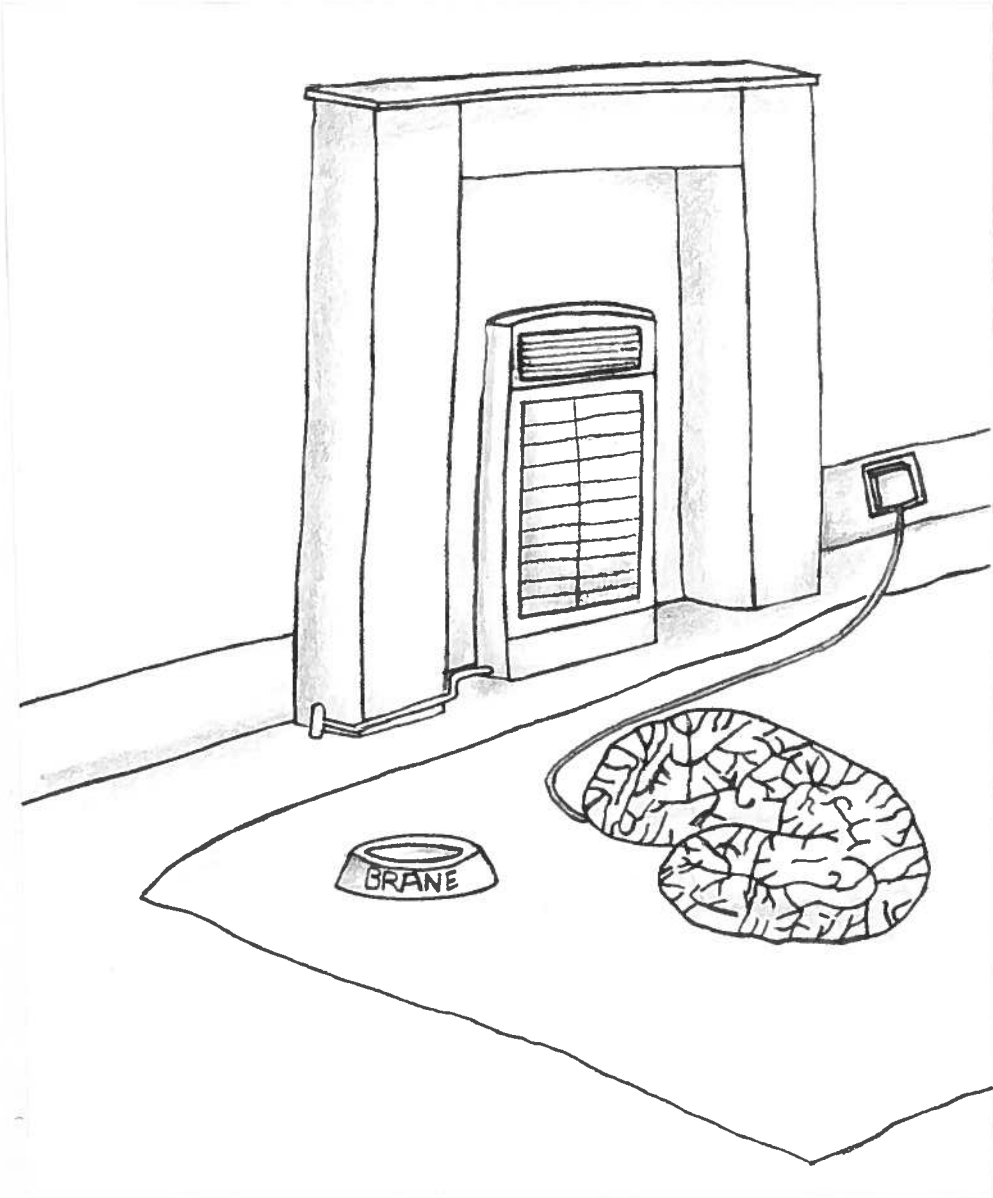


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Volume 1 Number 2
April 1986



Elektronik Brane

Founded in 1986 as the journal of the elektronik brane community, the 'Elektronik Brane' is dedicated to the retardation of information processing through indiscipline and to the irresponsible use of elektronik branes in a decreasing convergency of applications.

The 'Elektronik Brane' welcomes contributions in the fields of artifice, inelegance, artifice and inelegance, artifice or inelegance, artificial inelegance, inelegant artifice or cognitive agriculture. Details for intending authors may be purchased from our headquarters. We are currently experimenting with a human readable submission format based on write-once graphite deposit technology but will continue to reject manuscripts in elektronik brane manipulable form.

The 'Elektronik Brane's readership currently exceeds 27.

Editor-in-Chief

Prof. C. Cuthbert Calculus (Marlinspike)

Editorial Bawd

J. S. Bach(Hofstadter Institute)

James Bigglesworth(CID)

Prof. R. Branestawm(Great Pagwell)

Bianca Castafiore(Milan)

M. C. Escher(Hofstadter Institute)

Amelia Flittersnoop(Great Pagwell)

K. Godel(Hofstadter Institute)

Gilles De La Tourette(CD)

We wish to apologise unreservedly to Prof. R. Branestawm for miss-spelling his name and for specifying incorrectly his institutional affiliation in 'Elektronik Brane' Volume 1 Number 1.

Headquarters

1 Warrender Park Crescent
Edinburgh
EH9 1DX

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CORRESPONDENCE

Dear Sir, Madam or Robot ,

I write to complain that the first issue of 'ELEKTRONIK BRANE' which I received yesterday did not contain the second or last edition as promised by your advertisements in 'Computing' , the 'Dundee Courier' and 'Prestel'. Also the free plastic brain which whistles when placed in the bath appeared to have dropped out . Perhaps the postman took it? However on reading your excellently chosen articles I had only one complaint - far to much time is spent on confectionism in your first issue! Where are the hard centered articles on serious artificial inelegance? Why no 'build your own nuclear powered robot submarines ' as hoped? Why no articles from the Institute of Moral Machines , from Professor Horner perhaps on his well known "I - am " system?

I am glad to note that you are keeping standards at their useual level by sensible recourse to no moderation or mal-admin as we call it here. Looking forward to next months issue,

Anatole A. Duck

SEMINAR

Westland Towers Seminar

Professor J. Horner,
Corner Chair of Meta-Confection
Institute of the Moral Machine
1:15 Tuesday June 31st 1986

Title " I-am what I-am "

"I-am yesterday, I-am tomorrow , but never I-am today "

Professor Horner's primal program is written in C-sick++ on LUNIX(*) Intended as an answer to Simple Simon's 'universal question seeker' and the later Simon and Hustler's 'WHINE' system Profess Horner managed to write a program that fooled his colleagues into believing it to be a solipsist. Using the most simple of all man-machine interface analogies, here called the 'finger and thumbs' or 'hands on' approach Prof. Horner will describe how "I-am" generated Bishop Berkley's arguments from its own date & walnut base without the author's even writing such a base. Despite the lack of a portable program (C-sick will only run on a QL and Prof. Horner's QL no longer works since he kicked it) Prof. Horner will conclusively prove that "I-am" exists using only overhead projector slides of a usual dialogue with the program. He will also go on to demonstrate how "I-am" is easily extendible and will soon be able to produce Russell's paradox like 'a plum out of a pie' or a program out of thin air.

Please mail requests for transcripts to: bridie@forfar.janet&jill

(*) LUNIX is a trademark of Mabel, Radiocabs of Peniciuk Research Laboratories.

SELF-ASSESSMENT PROCEDURE

Artifice & Elegance

Continuing education is vital for the all round development of the active professional practitioner, in particular, to stay abreast of accelerating progress in our lively field. Here, we present the first in a series of self-assessment procedures. The intention is that carrying out the procedure will itself be informative and help to highlight contemporary topics requiring further study. Candidates of sufficient calibre for membership of the Blocksworld Confectionist Sorority or the Agglutination of Confectionist Manipulators should aim to achieve at least 80%.

Each question has one correct answer.

- 1) Which of the following are programs?
 - a) SHRDLU
 - b) Hofstadter
 - c) Parry
 - d) Eliza

- 2) Which of the following synthesise knowledge?
 - a) SHRDLU
 - b) AM
 - c) HACKER
 - d) MYCROFT

- 3) Which of the following might form the basis of a cartographic expert system?
 - a) a cognitive map
 - b) a chart parser
 - c) SHRDLU
 - d) a conceptual plan

- 4) Why did you do that?
 - a) Because you asked me to
 - b) To clean off the red cube
 - c) I understand
 - d) No

- 5) Do you think that coming here will help you not to be unhappy?
 - a) Yes, the red cube
 - b) Cops arrest the wrong people
 - c) Sorry, I don't know the word "unhappy"
 - d) Forget the excuses, you guys are all alike

- 6) Which of the following might form the basis of a confectionist model of interpersonal relationships?
 - a) fault tolerant communication

- b) demand driven resource allocation
- c) consumer/producer pair
- d) deadly embrace

7) How many beans make five?

- a) Five
- b) No
- c) Log Tan x
- d) by 'beans' I understand you to mean the green pyramid on top of the red block

8) How would you characterise the present global economic climate?

- a) An intractable problem
- b) A 'superblock' problem
- c) A dialogue problem
- d) Not a problem

9) Is $\langle (t|e) \rangle \langle (t|e) \rangle$

- a) intensional
- b) extensional
- c) unintentional
- d) extendible

10) Are most of the problems encountered in artifice and elegance

- a) Type 1 errors
- b) Type 2 errors
- c) Typing errors
- d) Typee errors

11) Which of the following is the ultimate objective of Artifice and Elegance ?

- a) Heaven
- b) HAL
- c) World Brain
- d) Christian Dior

12) Where does knowledge reside ?

- a) Nepal
- b) OPS5
- c) The White House
- d) The red block

13) Does current research really show

- a) Machines are more inelegant than people
- b) Knowledge is well advised to see an estate agent
- c) The deity uses OPS5
- d) OPS5 uses the deity

STATE-OF-THE-ROOM RESEARCH REPORT

Centre for Computational Juggling
(formerly the School of Epistemic(*) Juggling)
No known address, previously:
Above the ceiling tiles
E floor
University of the South Bridge

Dr. L. Eninwettits

1. DESCRIPTION OF ACTIVITIES OF THE CENTRE

The centre is for metadisciplinary, fringe research into neurojugglology, jugglology and sociojugglology in the Continental tradition. Basically, we forget everything anybody else has done and try and discover it all over again (if we're lucky). We have recently acquired 15 MOON jugglestations with own cast system and a new unit is being formed to be called EIEIO (Director: O.L.D. MacDonald).

Our Motto is: If it moves, implement it. If it doesn't, juggle it.

2. RESEARCH PROJECTS

Neurojugglology and the Cerebral Jugglebox

We have conducted hemispherotomies on some of the world's leading jugglers. This involves splitting the left and right hemispheres of the brain. The experiments are being conducted to judge effect on brain function and locate the Cerebral Jugglebox. It has been known up to now that the left hemisphere controls the right side of the body and language faculty. The right hemisphere controls left side of the body and visuo-spatial faculty. The Cerebral Jugglebox has been located in the the right hemisphere. We have achieved some early results and effects. For example, if a participant in our study is asked to start juggling with the left hand leading, then they sit there with a silly perplexed look on their face. But, if they are asked to lead with the right, then away they go. We explain this as follows. In the first case the command is parsed, blah, blah by the left hemisphere. Unfortunately, the left hemisphere can't communicate with the right in order to get the motor controls going to move the left hand. But, in the second case the left hemisphere controls the right hand and thus can get things going. Once the participant sees what to do when the right hand starts juggling the right hemisphere (visuo-spatial) can copy and get the left hand to do the same.

We have good reason to believe that the Jugglebox is innate

(*) From E-pist-then-sic, an old Yorkshire saying.

mechanism for juggling that is totally and irretrievably unconscious. It has to be activated and consequently large quantities of jugglaphobin build up in expert jugglers. We have isolated this substance and are experimenting with injecting the substance into incompetent jugglers (volunteers please call round to the Centre) to see if they can juggle to Grandmaster level.

We thank those jugglers involved and in honour we are forming an institution for helping them with their needs.

Short-term memory and juggling

The phenomenon of short-term memory is well known in psychology and is estimated at 7 ± 2 objects. We have new empirical evidence that show that the figure should be 6 ± 4 objects.

A large sample of jugglers of all abilities were tested. They were asked to juggle as many objects as possible from among a wide choice. Some could juggle ten, but not more. Others just managed two objects. We explain this by looking at short term-memory involved. All the jugglers surpassing their capability could not juggle competently because their short-term memory was overloaded and they simply forgot some of the objects while juggling. Consequently, in trying to juggle they would miss certain objects because they had forgotten all about them. There is a correlation between the the type of objects chosen and competence that we think is to do with associationistic memory.

Future research will be looking at long term memory. We believe ($CF = .9$) that the current figures are over-estimated. Experiments will be conducted in the following vein: subject jugglers to intense juggling periods (days) and ask to juggle in such a way that the objects vanish behind a screen while juggling. The objects are caught and withheld for long periods before being dropped back down. Hundreds of objects can be juggled in this way. Long term memory can be evaluated by the performance of participants.

Homunculus jugglers

Basically, Hume's problem is that only jugglology that will work posits internal representation and an internal representation requires an interpreter. But, the interpreter will be endowed with juggling abilities which also require representation: a sort of Homunculus. Thus there will be an infinite regression of juggling Homunculi, so jugglology is impossible.

The solution to this problem lies in society of jugglers paradigm. Break juggler down into subcomponents that have less ability than the level above. So, a competent juggler can be broken down into homunculi each juggling one ball (easy !) and implemented in hardware. The difficulty lies in explaining consciousness with this solution. How can consciousness arise out of these very sub-personal naughty bits ? We are also exploring the idea that if this can be explained then would a real social society of

jugglers (such as at this centre) have consciousness ? Who wrote this ? The centre or I ?

Language of Juggling

We believe that mental representation is essential for explanation of juggling. We thus posit an internal language of juggling. Many arguments are cited in favour or against this hypothesis, but we have decided to carry on in a Popping tradition and verify this irrefutable hypothesis. We think the language is Inner Jugglese. Experiments have been carried out on participants who have to juggle for a long time. Very, very sensitive microphones were implanted in the Cerebral Jugglebox (the right hemisphere) and we heard something though very faintly. This has been identified as Inner Jugglese by Dr. Glug and below are translations of what was heard. The transcripts were recorded from three jugglers of varied competence.

BEGINNER

```
Let's start.  
Throw the right.  
Good.  
Now!  
Throw the left.  
Quick get the ball in the left hand.  
Oh no!  
Throw the right.  
Too high.  
Get the right.  
You missed the left.  
Idiot.  
Biff, bang.
```

INTERMEDIATE

```
start_juggle :- throw(r),juggle(l,r)
```

For criss cross:

```
juggle(A,B) :- throw(A),  
                catch(A),  
                juggle(B,A).
```

For showers:

```
juggle(A,B) :- throw(B),  
                pass(A,B),  
                catch(A),  
                juggle(A,B).
```

For 2 in 1:

```
juggle(A,B) :- (throw(A),throw(B)) % in parallel  
                catch(B),  
                throw(B),
```



```
(catch(A),catch(B)) % in parallel
juggle(A,B).
```

We think that throw,catch,pass are implemented in C like language for real time application. This requires further analysis.

ADVANCED

We think the original transcript is a specification (in Martin Luuuffff's token theory) which performs juggling in the process of being proved (inductive juggling).

3. PHD PROJECTS

- Qualitative Juggling for Ball-control
- Casual modelling and Juggling
- Build your own Juggling system out of bits of brain and arms
- Object-oriented juggling
- The Juggling reality of LISP
- What Jugglers can't do: a critique
- Juggling machines and grammars

(average completion 7.8 juggle-years)

4. FORTHCOMING CONFERENCES

Juggling, Machines and Evolution

To be held at the Holiday Inn in the Galapagos Islands

Contact:

A. Lizard, 1 Underrock Rd, Galapagos Is, Pacific

Not invited papers on:

- Biological Foundations of Juggling
- Juggling Ethology

IN BRIEF

Research Initiative

The Halva Directorate has announced a major new initiative in Applied Confectionism. The UGC has joined with a number of private, public and academic institutions to develop a resource rationalisation system. The approach is based on the Staff Reduction Architecture used by the 'MALICE' project at the Colonial College of Artifice and Technocracy which will implement an abstract machine for the Bread Marketing Board's roll modelling language 'MILANDA' using the 'SKIMP' super combinations developed by the Department of Legwear at the University of Lesmahagow. The target machine will be built from the Compost 'Transfuser' running the Prison

Service Version 4.2 of PICK 'oakum'.

Unique(*)ly, the project requires no new funding. Instead, each group will keep 5% of the result of the system's application to their own institution.

Massive cuts in Research Funding.

It is indeed regrettable to have to note the withdrawal of Government funding for the White Fish Authority's Logic Chips programme as of May 1986. As was reported in Elektronik Brane (1:1 1986) our comrades were making significant progress in the struggle to overcome inequalities in the domination of the sea/land interface by appeal to the universal primitives of cognitive functioning. The research team will be temporarily housed with Edinburgh University's wave tank project when their funding is terminated. Work on Turbot Basscal continues.

Applications of erroneous software systems to semantic processing systems: the SHURDLU and GRAUNIAD systems.

Very big drinks are requested to explore the possibilities of automating semantic confusion through judicious (and injudicious) use of deliberately erroneous systems. Thus a legal C source can be compiled to a useless program by using a miscompiler, the errors having been first explored with a misinterpreter. Text can be reduced to the required state of mindless drivel by the nroff -wrong macro package, which deliberately obfuscates all text with the unspell system inserting any required spelling errors at random. It is expected that if combined with suitable 4GL tools and AI packages we could easily outstrip the Japanese in this area of unexpertese and possibly totally automate the Houses of Parliament and Whitehall by 1987.

BOOK REVIEW

Prolegomania: Kant's concept of teleology revisited
Aaron Z. Bargs & Euphemia Jerkov
Akron University Press (Ohio) 1984
Pages: 93; Illustrations: 105 (106 in colour)
Price: \$183-55 (ovno)

At this moment in time there is no shortage of substantive informed comment upon the developmental validity of lego in early nineteenth century philosophy but Professor Bargs' book may be regarded as a significant contribution to our understanding of Kant's preoccupation with Lego. In Bargs' symbolic language, Kant's concept of teleology becomes child's play. The flat grey bits represent his second analogy, the red squares Hulme's sceptical doctrines and the black oblong bits being those "... empirical laws (which) can exist and be discovered only through experience and in consequence of those original laws through which experience itself becomes possible." A monolithic superstructure

(*) Unique is a trademark of Belge Labradors.

of ontologically insecure bits is built upon this framework which Bargs petulantly dashes to pieces in the final chapter. Sadly, he makes no reference to Zappa et al's analysis of Plum's use of non-referent symbolism (see for example the Bulletin of the European association of Neuroscientists and Occulists, 1985, 119,ii,pp. 1293-1298), although I think that many readers will find the pop-up section (appendix 13) depicting Victorian bedroom scenes to be rather anal.

Eugene Smegma
Geoffrey Archer Professor of Not Particularly Relevant Socio-Linguistics
University of Scunthorpe

RECIPE

Eggs/port system

Arty Grobers

- 2 Eggs
- 1 bottle port
- 1 large grant
- pseudo-statistical mumbo jumbo (to taste)
- 1 domain expert
- 1/2 pint ontology
- 1 lb butter
- 2 cups concrete

Eggs/port system shell:

First, chop grant into small chunks and divide into thirds. Mix 2/3 grant, eggs, and port. Slowly add pseudo-statistical mumbo jumbo and concrete until tacky. Form into 9" closed shell. Place in oven until half baked. (Do not be surprised if holes have developed.)

Knowledge baste:

Mix butter, ontology, and remaining 2/3 grant. Apply resulting buttery mixture to domain expert while grilling slowly. Mince result.

Finally:

Insert Knowledge baste into eggs/port system shell through Feigenbaum bottleneck. Serve cold.

Hints:

Holes in eggs/port system shell can be covered using semantic waffling. To top the whole thing off, whip up a natural language front-end using ATNs and lots of the proper syntactic sugaring.

Bon Apetit!

ARTICLE

'Yorkie': articulating confectionism
Laurie Truck
Centre for Confectionist Studies
University of Yorkie
Yorkieshire

Abstract

Despite the massive growth of confectionism[1], Sweet's vision has been ignored in industrial chocware engineering. A confectionist model of a 'Yorkie' bar exemplifies the unacceptable face of carbohydratism.

1. Methodology

A 'Yorkie' bar was purchased from R.S.McColl(*) and a confectionist model constructed in Cocolog.

2. Waiting for the weight?

Each bar has 6 chunks and weighs 60g. Therefore, each chunk weighs:

$$60/6 = 10g$$

However, in a 'Yorkie' bar there is a ton of chocolate in every chunk. We therefore have the apparent contradiction:

$$1 \text{ chunk} = 1 \text{ ton(metric)} = 1000000g = 10g?$$

Further investigation reveals that milk chocolate contains cocoa solids 22% minimum, milk solids 20% minimum and vegetable fat. This reduces the inequality to:

$$1000000*22\% + 1000000*20\% = 420000g = 10g?$$

Clearly, this literal reading misses the point: the remaining 420000g of chocolate also contains 22% minimum cocoa solids and 20% minimum milk solids, and so on. Thus we require the fixed point of:

```
weight(Initial,Final) :- cocoa is Initial*22/100,
                          milk is Initial*20/100,
                          Intermediate is cocoa+milk,
                          weight(Intermediate,Final).
```

which is:

(*) We are pleased to acknowledge generous financial help from the Snackette Eaters Relief Committee and the Halva Directorate.

```
lam f.(lam s.(f (s s)) lam s.(f (s s))) weight(1000000,Final)
```

Running this overnight on the department's Touring Machine(**) with infinite precision arithmetic revealed:

Final = 0

Thus, we now have:

1 chunk = 1 ton (metric) chocolate = 0g = 10g ?

This apparent problem is easily resolved. Each chunk contains no cocoa or milk at all and is composed entirely of 10g of vegetable fat.

3. Cost, an impartial lettuce?

Similar difficulties appear when we consider the price. Apparently, 70g may be acquired for the normal price of 60g, so we have:

$70g =_p= 60g \Rightarrow 1g =_p= 6/7g \Rightarrow 10g =_p= 60/7g$

where '=p=' is price equality. In addition, we are supposedly 'given' one chunk free, so:

$10g =_p= 0g$

Thus:

$60/7g =_p= 0g =_p= 10g ?$

This bizarre result, which flies in the face of the basic tenets of chocolate monetarism, is again resolved through the elegance & artifice of applied confectionism.

We have one free chunk, so:

$chunks(OldChunks,FinalChunks) :- NewChunks \text{ is } OldChunks+1,$
 $chunks(NewChunks,FinalChunks).$

Once more, utilising the full power of our Tourette Machine(***) we find that we apparently have an infinite number of free chunks! However, from our price equality equation above, the free chunks have no weight and we are actually paying the old price for the old quantity!

References

[1] Conference Report, 'Elektronik Brane', Vol. 1, No. 1, 1986.

(**) 'Touring Machine' is a trade mark of Belle's Diner

(***) 'Tourette Machine' is a trademark of Bells & Saliva(PLC)