

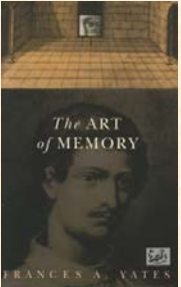
PSYCO 354

Case Study: *The Art of Memory*

Recall π 's First 200 Digits Explain How To Do It


The Art Of Memory

- Many mnemonic methods appear to exploit aspects of the three different approaches to memory that we have discussed to this point
- Mnemonic methods – the artificial memory – paint an optimistic vision of a hybrid, applied cognitive science
- Of course, they have many practical applications
- Hopefully I have already demonstrated their power by correctly recalling the first 200 digits of π from memory



Major System

- The major system for remembering strings of digits is similar
 - Recode digits as consonant sound
 - Add vowels to make words, phrases, sentences
 - Make images that capture meaning of the phrases
 - When recalled, decode back into original digit string




Francis Fauvel-Gouraud

Numerical	Associated Consonants	Mnemonic
0	s, z, soft c	"z" is the first letter of zero. The other letters sound similar
1	d, t	d & t have one downstroke and sound similar
2	n	n has two downstrokes
3	m	M has three downstrokes
4	r	last letter of four
5	l	L is the Roman Numerical for 50, L from hand shape
6	j, sh, soft "ch", dg, zh, soft "g"	a script j has a lower loop / g is almost a 6 flipped over
7	k, hard c, hard g, hard "ch", q, qu	capital "K" contains two sevens
8	f, v	script f resembles a figure-8, V-8 juice
9	b, p	p is a mirror-image 9, b resembles a rotated 9

Method Of Loci


- One of the oldest memory techniques is the method of loci
 - One takes a journey through a familiar place, such as a building with different rooms
 - At each location in the building, an image is created of something to be remembered, and that image is placed in the location
 - To recall, go through the journey again, looking at the images placed in each location to recall



[Andi Bell explains the method of loci](#)

Dawson's Hybrid Technique

- Remembering
 - Define phrases that encode required digits by using the major system
 - Convert the phrases into to-be-remembered images
 - Lay down the images in memory using the method of loci
- Retrieving
 - Walk through the places
 - Retrieve the image at each place
 - Recreate the phrase
 - Use the major system to convert the phrase into digits



Place 1: Front Sidewalk

Motor Tulip
M T R T L P
3 1 4 1 5 9

Place 2: Front Steps

Nash! Lame! Leave!

N SH L M L V

26 53 58

Place 3: Front Foyer

Pick Poem Name

P K P M N M

97 93 23

Place 4: Front Closet

Fur Changer

F R Ch N Ch R

84 6264

Place 5: Front Washroom

Mum Foamin'

M M F M N

33 832

Place 6: Kitchen Table

Kibbles Knife

K B L S N F

7950 28

Place 7: Kitchen Stove

Fried Bucket

F R D B K T

841 971

Place 8: Kitchen Pantry

Shabby Map Bomb

Sh B M P B M

69 39 93

Place 9: Dining Room Table

Cold Seal Fins

K L D S L F N S

751 05 820

Place 10: Living Room

Puck Wrapper

P K R P R

97 494

Place 11: Stairs Landing

Earlobe Gnomes Coffee

R L B N M S K F

459 230 78

Place 12: Laundry Room

Teachers Shine Fish Nose

T Ch R S Sh N F Sh N S

1640 62 86 20

Place 13: Linen Closet

Hive o' Pipe Fish

V P P F Sh

8 99 86

Place 14: Playroom

Knives Hammer Vinyl

N V S M R V N L

280 34 825

Place 16: Master Bedroom

Marooned Ticks

M R N D T K S

3421 170

Place 15: Master Closet

Shoe Cob

Sh K B

6 79

Halfway Journey

- The preceding story provides the method for the first 100 digits of π
- I decided to add the next 200 digits to the demonstration
- I used the same method – but to avoid confusion I shifted my loci to a path through my ‘fortress of solitude’ at Hastings Lake
- I also decided to use more complex phrases and images, so that each image encoded 10 digits



Place 17: Garage

Van Drives Fishy Lad

V N D R V S F Sh L D

82 1480 86 51

Place 18: Basement Living Room

Mean Phenoms Show Shark

M N F N M S Sh Sh R K

32 8230 6 647

Place 19: Spiral Staircase

Soapy Mover Reaches Pail

S P M V R R Ch S PL

09 384 460 95

Place 20: Living Room

Lazily Phone Named Kin

L S L F N N M D K N

505 82 231 72

Place 21: Dining Room Table

Lamb Helper Saved Knave

L M L P R S V D N V

53 594 081 28

Place 22: West Deck

Refitted Daycare Lesson

R F T D D K R L S N

4811 174 502

Place 23: North Deck

Fort Sinks Atop Me

F R T S N K S T P M

841 0270 19 3

Place 24: North Deck Railing

Fallen Dads Loyal Leap

F L N D D S L L L P

852 110 55 59

Place 25: Front Yard (Looking East)

Cheer Russian Neighbor Vibe

Ch R R Sh N N B R V B

64 462 294 89

Place 26: Bottom Of Deck Steps

Whaler Poems Moved Bush

LR PMS MVD B Sh

54 930 381 9 6

Recall Complete!

- 26 images, located along a regular and well known path at two separate locations permits me to recall the first 200 digits of π
- The remaining lectures in this course will show how the techniques illustrated in this demonstration illustrate elements of each of the three schools of thought in cognitive science



First Set

MTR TLPN Sh LML

31415926535

First Set

My Turtle Punch Lamely

MTR TLPN Ch LML

3 1415 926 535

Second Set

F B K B M N M V R Sh

8979323846

Second Set

Phobic Bohemian Movie Rush

F B K B M N M V R Sh

897 932 38 46

Third Set

N Sh R M M V M N K P

2643383279

Third Set

Nature Mom Fumin' Cap

N Ch R M M F M N K P

264 33 832 79

Fourth Set

LSNFVRTPKT

5028841971

Fourth Set

Loosen Favorite Packet

LSNFVRTPKT

502 8841 971

Fifth Set

Sh P M P B M K L T S

6939937510

Fifth Set

Ship Hemp Bum Kilts

Sh P M P B M K L T S

69 39 93 7510

Sixth Set

LVNSPKRBRR

5820974944

Sixth Set

Leavin' Speaker Perrier

LVN SPKR PRR

582 0974 944

Seventh Set

LPNMSKFT Ch R

5923078164

Seventh Set

Whalebone Mask Hefty, Cheery

LBN MSK FT Ch R

592 307 81 64

Eighth Set

S Sh N V Sh N S V P P

0628620899

Eighth Set

**Swishin' Fashion's Heavy,
Baby**

S Sh N F Sh N S V B B

062 8620 8 99

Ninth Set

F Sh N F S M R V N L

8628034825

Ninth Set

Fish Knifes My Raven Lou

F Sh N F S M R V N L

86 280 3 482 5

Tenth Set

M R N T D K S Ch K P

3421170679

Tenth Set

Marionette Ducks Checkup

M R N T D K S Ch K P

3421 170 679