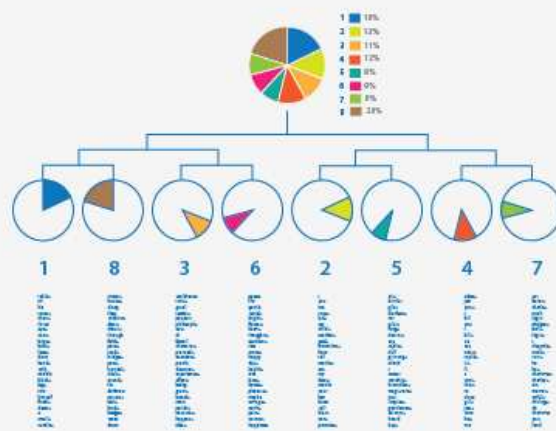
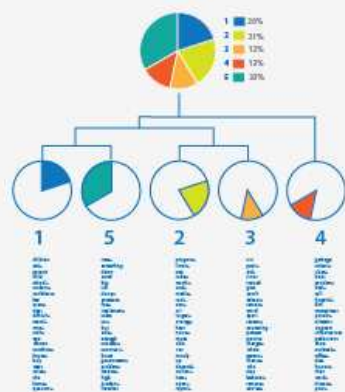
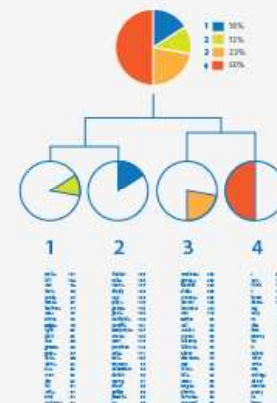
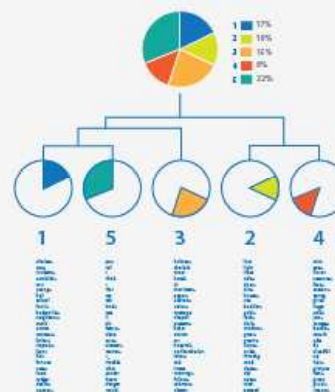
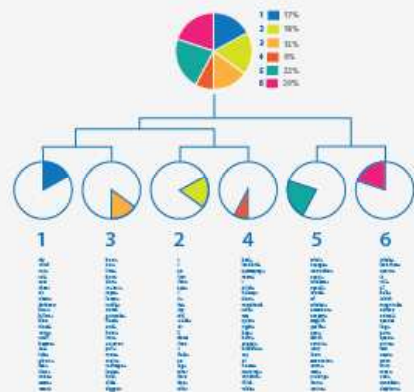
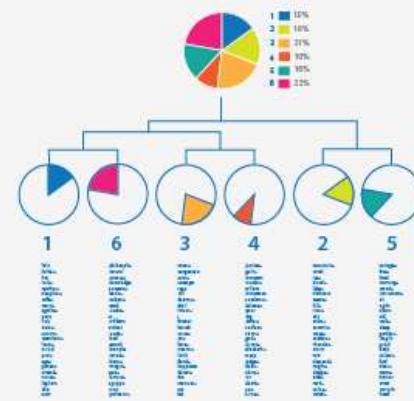
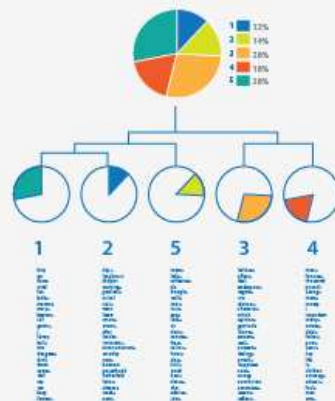
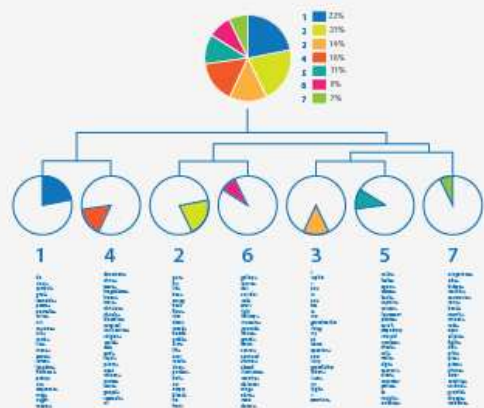
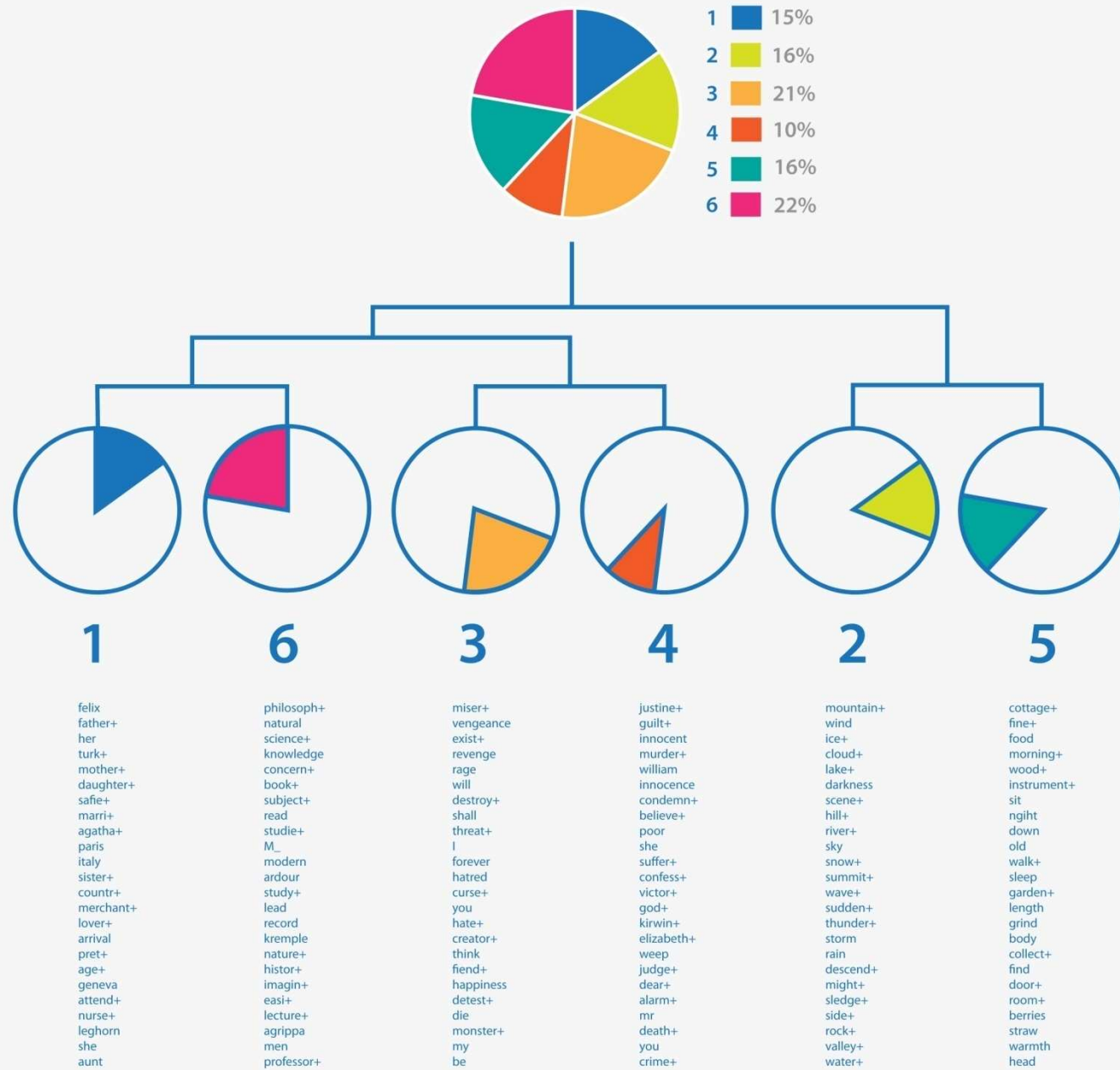


\*  
**how would a robot read a novel?**







1

felix  
father+  
her  
turk+  
mother+  
daughter+  
safie+  
marri+  
agatha+  
paris  
italy  
sister+  
countr+  
merchant+  
lover+  
arrival  
pret+  
age+  
geneva  
attend+  
nurse+  
leghorn  
she  
aunt

6

philosoph+  
natural  
science+  
knowledge  
concern+  
book+  
subject+  
read  
studie+  
M\_  
modern  
ardour  
study+  
lead  
record  
krempel  
nature+  
histor+  
imagin+  
easi+  
lecture+  
agrippa  
men  
professor+

3

miser+  
vengeance  
exist+  
revenge  
rage  
will  
destroy+  
shall  
threat+  
I  
forever  
hatred  
curse+  
you  
hate+  
creator+  
think  
fiend+  
happiness  
detest+  
die  
monster+  
my  
be

4

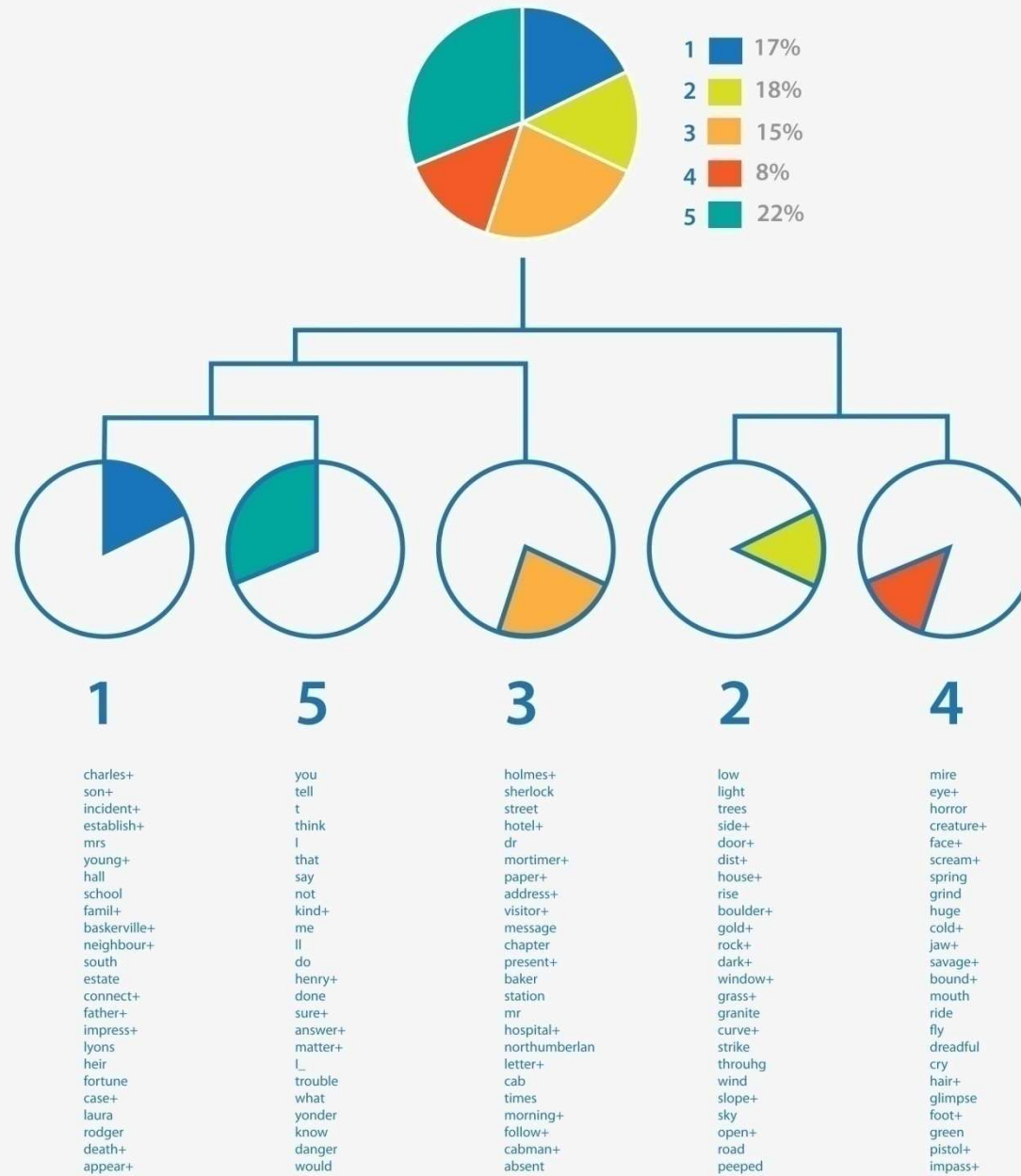
justine+  
guilt+  
innocent  
murder+  
william  
innocence  
condemn+  
believe+  
poor  
she  
suffer+  
confess+  
victor+  
god+  
kirwin+  
elizabeth+  
weep  
judge+  
dear+  
alarm+  
mr  
death+  
you  
crime+

2

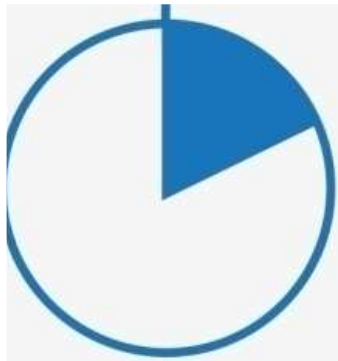
mountain+  
wind  
ice+  
cloud+  
lake+  
darkness  
scene+  
hill+  
river+  
sky  
snow+  
summit+  
wave+  
sudden+  
thunder+  
storm  
rain  
descend+  
might+  
sledge+  
side+  
rock+  
valley+  
water+

5

cottage+  
fine+  
food  
morning+  
wood+  
instrument+  
sit  
night  
down  
old  
walk+  
sleep  
garden+  
length  
grind  
body  
collect+  
find  
door+  
room+  
berries  
straw  
warmth  
head







1

charles+  
son+  
incident+  
establish+  
mrs  
young+  
hall  
school  
famil+  
baskerville+  
neighbour+  
south  
estate  
connect+  
father+  
impress+  
lyons  
heir  
fortune  
case+  
laura  
rodger  
death+  
appear+



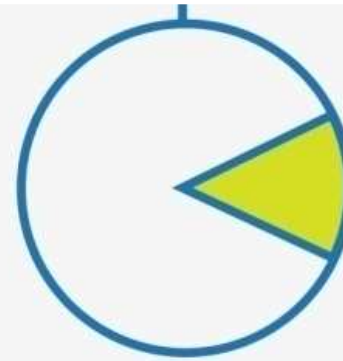
5

you  
tell  
t  
think  
l  
that  
say  
not  
kind+  
me  
ll  
do  
henry+  
done  
sure+  
answer+  
matter+  
l\_  
trouble  
what  
yonder  
know  
danger  
would



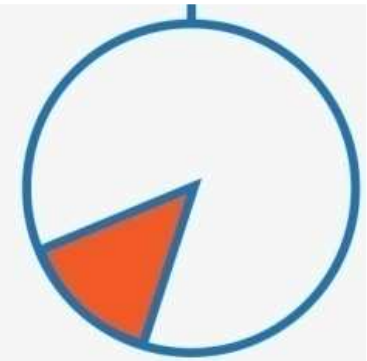
3

holmes+  
sherlock  
street  
hotel+  
dr  
mortimer+  
paper+  
address+  
visitor+  
message  
chapter  
present+  
baker  
station  
mr  
hospital+  
northumberland  
letter+  
cab  
times  
morning+  
follow+  
cabman+  
absent



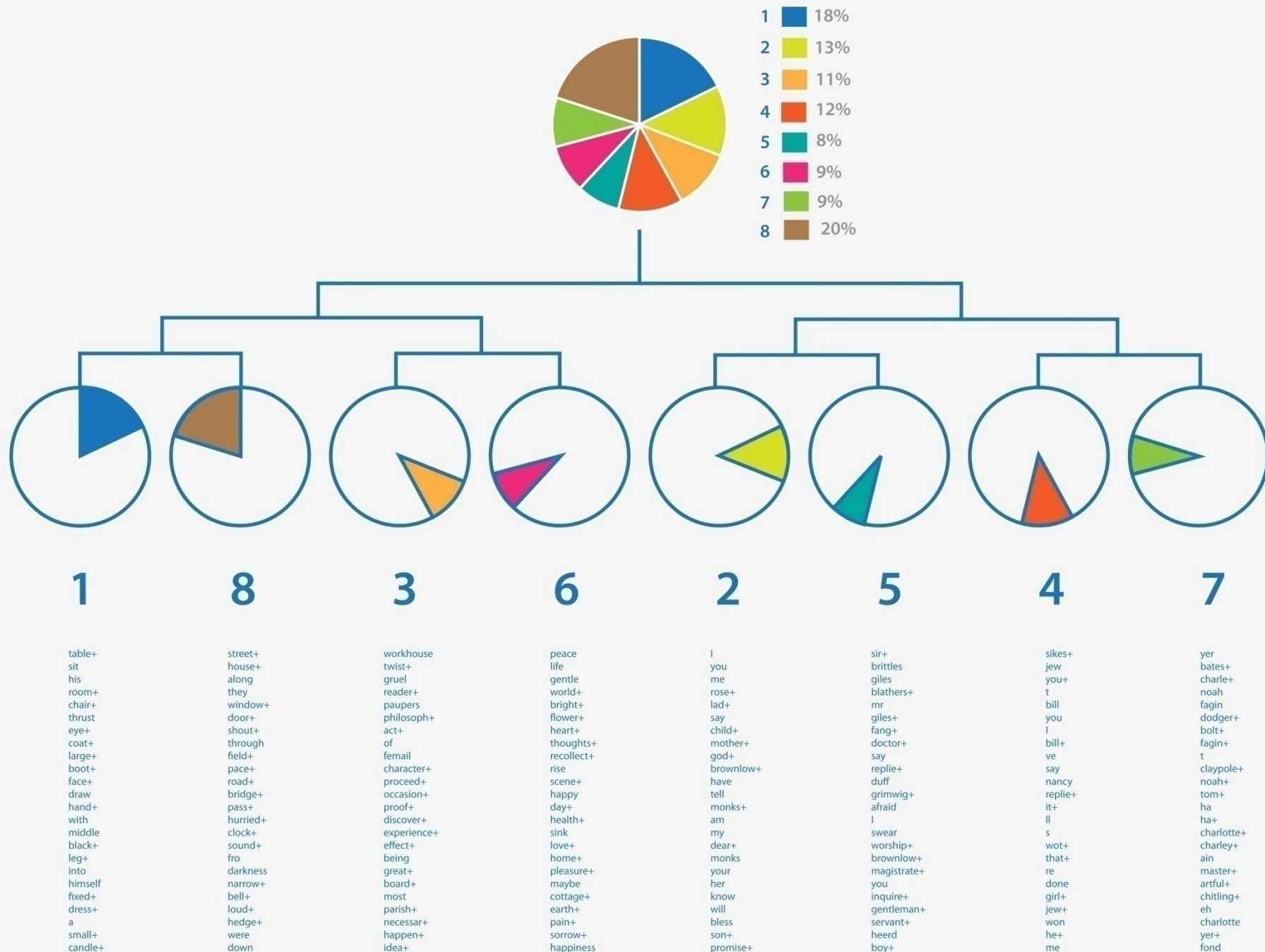
2

low  
light  
trees  
side+  
door+  
dist+  
house+  
rise  
boulder+  
gold+  
rock+  
dark+  
window+  
grass+  
granite  
curve+  
strike  
throuhg  
wind  
slope+  
sky  
open+  
road  
peeped



4

mire  
eye+  
horror  
creature+  
face+  
scream+  
spring  
grind  
huge  
cold+  
jaw+  
savage+  
bound+  
mouth  
ride  
fly  
dreadful  
cry  
hair+  
glimpse  
foot+  
green  
pistol+  
impass+





1

table+  
sit  
his  
room+  
chair+  
thrust  
eye+  
coat+  
large+  
boot+  
face+  
draw  
hand+  
with  
middle  
black+  
leg+  
into  
himself  
fixed+  
dress+  
a  
small+  
candle+

8

street+  
house+  
along  
they  
window+  
door+  
shout+  
through  
field+  
pace+  
road+  
bridge+  
pass+  
hurried+  
clock+  
sound+  
fro  
darkness  
narrow+  
bell+  
loud+  
hedge+  
were  
down

3

workhouse  
twist+  
gruel  
reader+  
paupers  
philosoph+  
act+  
of  
femail  
character+  
proceed+  
occasion+  
proof+  
discover+  
experience+  
effect+  
being  
great+  
board+  
most  
parish+  
necessar+  
happen+  
idea+

6

peace  
life  
gentle  
world+  
bright+  
flower+  
heart+  
thoughts+  
recollect+  
rise  
scene+  
happy  
day+  
health+  
sink  
love+  
home+  
pleasure+  
maybe  
cottage+  
earth+  
pain+  
sorrow+  
happiness

I  
y  
n  
r  
l  
s  
c  
n  
g  
b  
h  
ti  
n  
a  
n  
d  
n  
y  
h  
k  
v  
b  
s  
p





2

I  
you  
me  
rose+  
lad+  
say  
child+  
mother+  
god+  
brownlow+  
have  
tell  
monks+  
am  
my  
dear+  
monks  
your  
her  
know  
will  
bless  
son+  
promise+

5

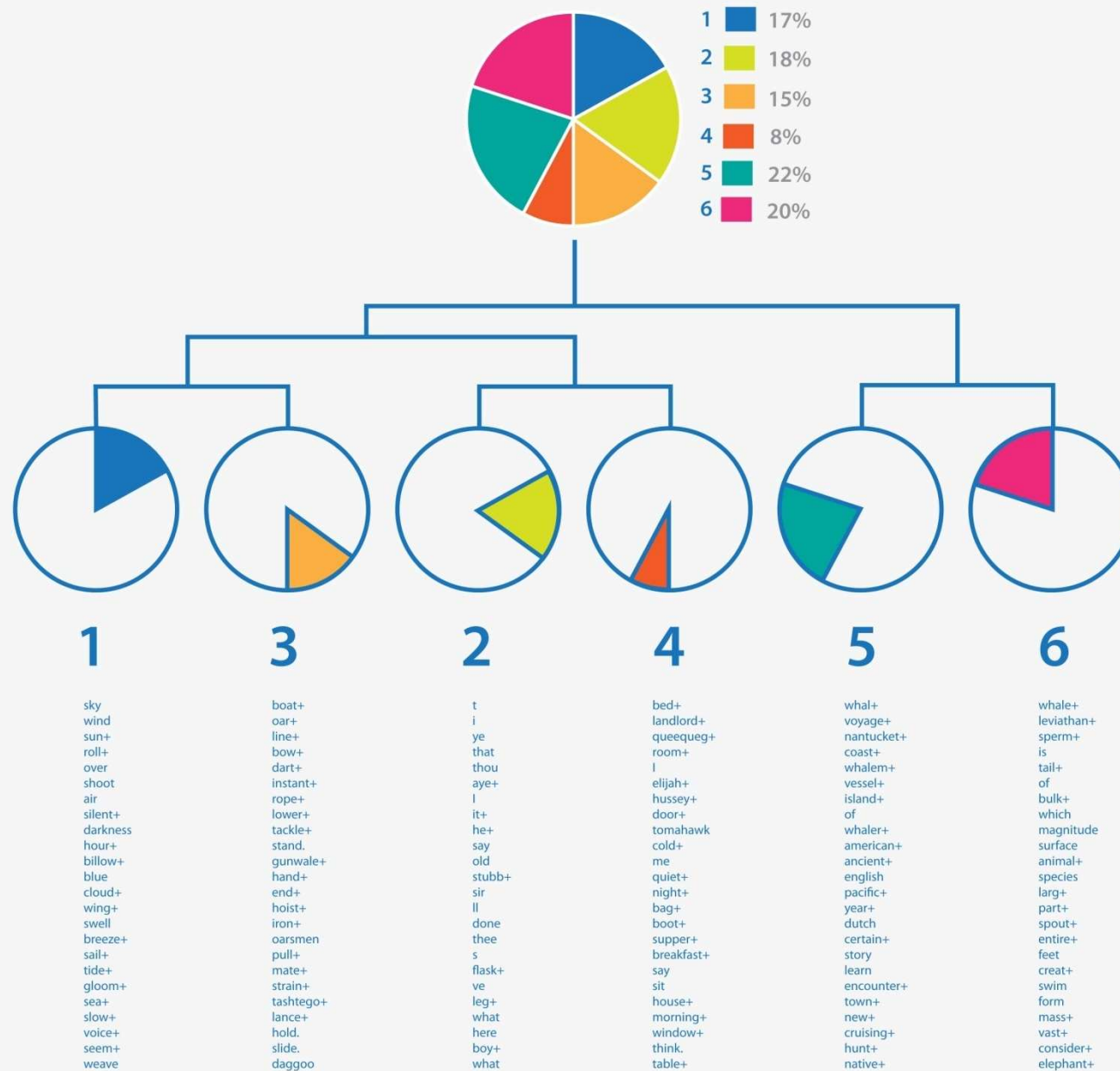
sir+  
brittles  
giles  
blathers+  
mr  
giles+  
fang+  
doctor+  
say  
replie+  
duff  
grimwig+  
afraid  
I  
swear  
worship+  
brownlow+  
magistrate+  
you  
inquire+  
gentleman+  
servant+  
heerd  
boy+

4

sikes+  
jew  
you+  
t  
bill  
you  
I  
bill+  
ve  
say  
nancy  
replie+  
it+  
ll  
s  
wot+  
that+  
re  
done  
girl+  
jew+  
won  
he+  
me

7

yer  
bates+  
charle+  
noah  
fagin  
dodger+  
bolt+  
fagin+  
t  
claypole+  
noah+  
tom+  
ha  
ha+  
charlotte+  
charley+  
ain  
master+  
artful+  
chitling+  
eh  
charlotte  
yer+  
fond



**Alceste,**  
the “robot”

# How does ALCESTE work?

- ALCESTE substitutes sentence meaning by analyzing *local co-occurrences of words*.
- The underlying idea is that the meaning of propositions and sentences can be captured if one finds those words that go together in sentences and that are produced by as many respondents as possible.

## The core capability of ALCESTE is

- to generate an *empirically based classification of text units* according to the *pattern of co-occurrences of word tokens* within these units
- The researcher then makes interpretations based on these units



an example using  
social science data

## SYNTHESIS OF PROCESSING BY ALCESTE

(In using a double descending classification)

## Processing corpus

corpus us groups TZ.txt  
 processing  
 length 156 Ko  
 plan TZ.pl  
 total i.c.u. 1

## Vocabulary analysis

total of forms 30426  
 different forms 2536  
 reduced forms 595  
 suppl. form 177  
 modalities of variables 2

## Selection of e.c.u.

Selected 70% Eliminated 30%

Class 1: 87 e.c.u. Class 2: 90 e.c.u.  
 Class 3: 58 e.c.u. Class 4: 58 e.c.u.  
 Class 5: 143 e.c.u.

## Classification trees

class 4  
 class 3  
 class 2  
 class 5  
 class 1  
 class 4  
 class 3  
 class 2

## Class statistics

e.c.u. (%)

20 21 12 10 33  
 1 2 3 4 5 → classes

## Class 1

## Presences Khi-S

children 59  
 ask+ 52  
 parents 49  
 child 46  
 school+ 36  
 student+ 32  
 confidence 32  
 her 30  
 exam+ 24  
 class 20  
 difficult+ 19  
 moral+ 19  
 stop+ 19  
 start+ 18  
 age 16  
 woman 16  
 condition+ 16  
 house+ 16  
 lady 15  
 wear 15  
 value+ 15  
 she 15  
 home+ 14  
 question+ 13

## Absences Khi-S

like -11  
 talk+ -9  
 don -7  
 about -7  
 hospital+ -6  
 HIV -6

## Class 5

## Presences Khi-S

tree+ 34  
 something 27  
 down 26  
 stand. 24  
 big 23  
 out. 17  
 dump+ 16  
 someone 15  
 fare+ 14  
 implement+ 14  
 caesa 12  
 can+ 12  
 bus 11  
 side+ 11  
 enough 11  
 consider+ 11  
 construct+ 11  
 buses 11  
 government+ 11  
 problem+ 11  
 receive+ 10  
 high 10  
 product+ 10  
 trenches 10

## Absences Khi-S

who -21  
 ask+ -14  
 with -11  
 children -11  
 garbage -10  
 tell -10

## Class 2

## Presences Khi-S

program+ 63  
 listen+ 49  
 BBC 47  
 radio+ 46  
 watch+ 37  
 end+ 34  
 media+ 27  
 real+ 26  
 stor+ 25  
 air 25  
 target+ 23  
 strateg+ 23  
 hear. 20  
 name+ 19  
 music 19  
 able 18  
 TBC 18  
 mostly 18  
 up 17  
 depend+ 15  
 station+ 15  
 new+ 15  
 open+ 15  
 report+ 14

## Absences Khi-S

take. -13  
 build -9  
 picture+ -8  
 us -7  
 way+ -7  
 environment -6

## Class 3

## Presences Khi-S

HIV 96  
 posit+ 88  
 aid+ 65  
 times 51  
 instead 47  
 give. 45  
 youth 38  
 educat+ 37  
 remain+ 36  
 amref 30  
 apart 30  
 recreat+ 29  
 counseling 29  
 process 29  
 practice 29  
 change+ 27  
 whole 27  
 person+ 25  
 chance+ 23  
 who 23  
 may. 22  
 behavior+ 22  
 remove+ 22  
 service+ 22

## Absences Khi-S

in -15  
 then -10  
 very -8  
 some -6  
 it -6  
 time -5

## Class 4

## Presences Khi-S

garbage 135  
 collect+ 79  
 clean+ 79  
 bataj 62  
 accident+ 62  
 bed+ 62  
 sell 62  
 hospital+ 44  
 fish 39  
 mosquitoes 39  
 patient+ 39  
 ailments 39  
 stagnant 38  
 infrastructure 33  
 pedestrians 33  
 share 33  
 outbreak+ 33  
 office+ 32  
 due 32  
 human+ 32  
 their 31  
 ward+ 30  
 disease+ 28  
 poor+ 28

## Absences Khi-S

what -8  
 give. -7  
 even -6  
 start+ -6  
 see -5  
 educat+ -6

## forms dictionary

FORM EFFECTIVE  
 to 921  
 people+ 201  
 go. 185  
 don 141  
 take. 126  
 find. 124  
 think. 120

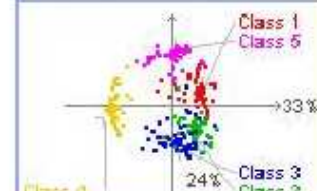
## Notions dictionary

NOTION EFFECTIVE  
 Professionnel 8

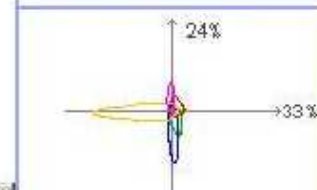
## F.A. / coordinates

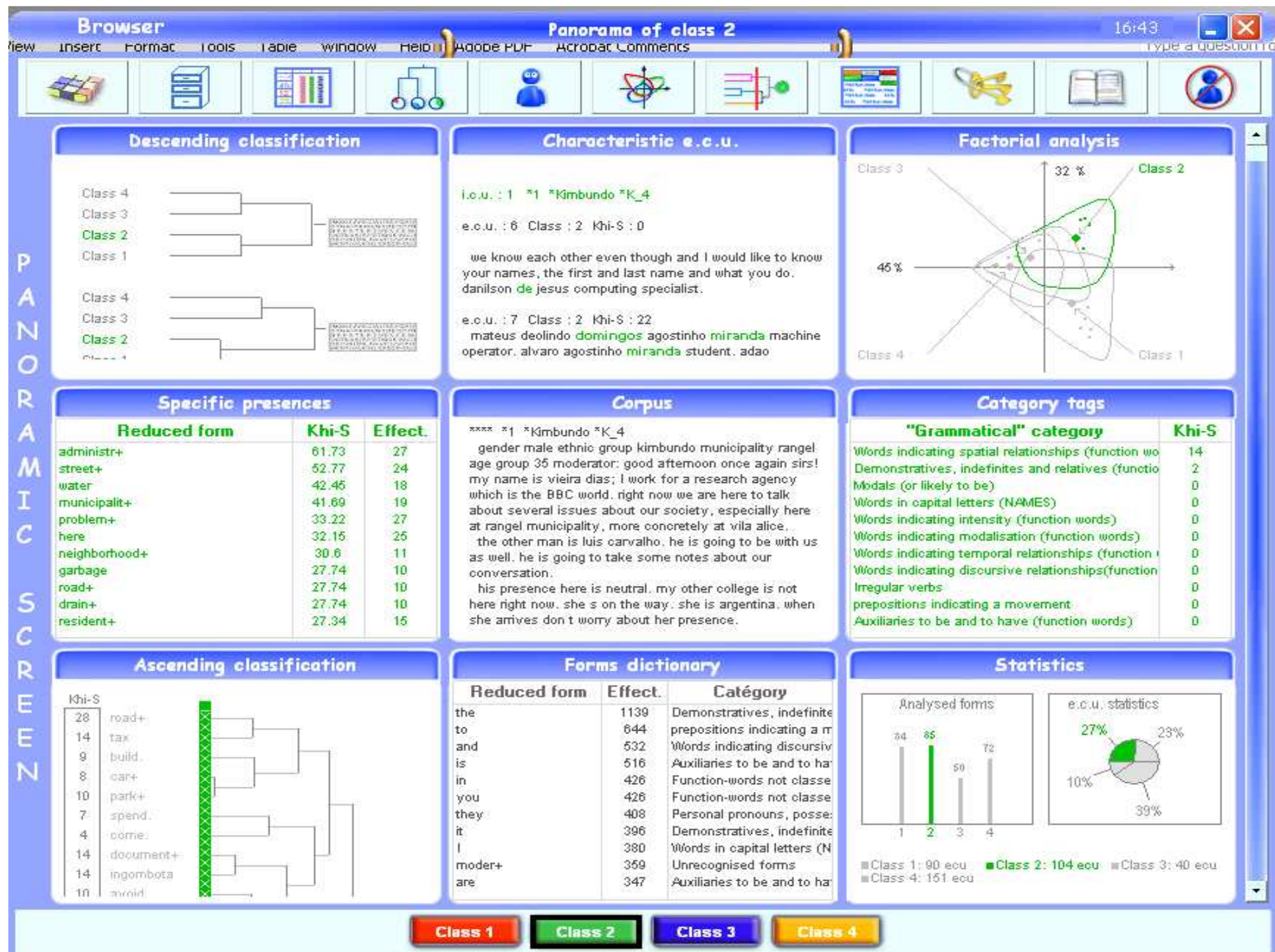


## F.A. / correlations

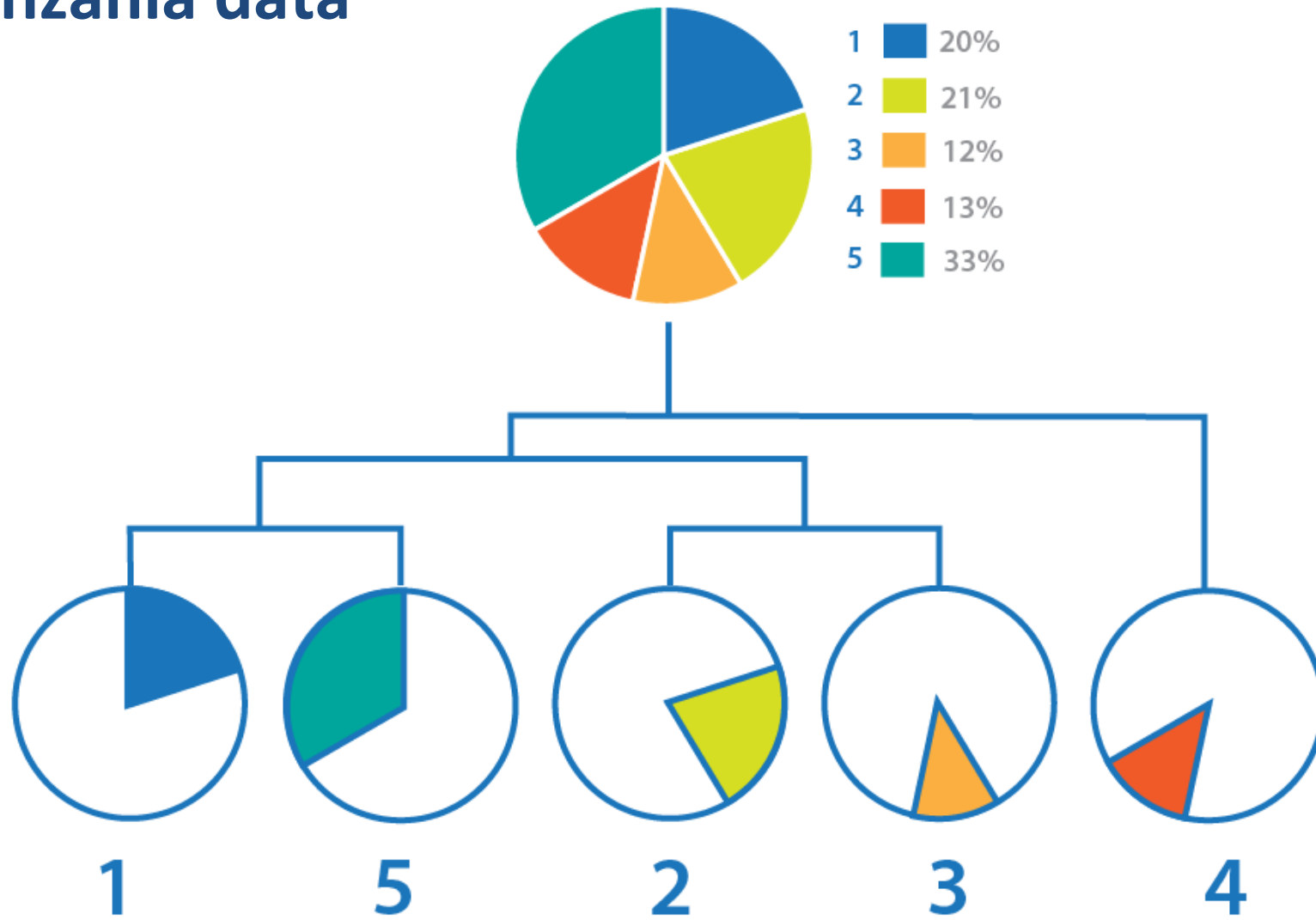


## F.A. / contributions





# Tanzania data





# 1

children  
ask+  
parents  
child  
school+  
student+  
confidence  
her  
exam+  
class  
difficult+  
moral+  
stop+  
start+  
age  
woman  
condition+  
house+  
lady  
wear  
value+  
she  
home+  
question+

# 5

tree+  
something  
down  
stand  
big  
cut  
dump+  
someone  
fare+  
implement+  
caesa  
car+  
bus  
side+  
enough  
consider+  
construct+  
buses  
government+  
problem+  
receive+  
high  
product+  
trenches

# 2

program+  
listen+  
BBC  
radio+  
watch+  
end+  
media+  
real+  
stor+  
air  
target+  
strateg+  
hear  
name+  
music  
able  
TBC  
mostly  
up  
depend+  
station+  
new+  
open+  
report+

# 3

HIV  
posit+  
aid+  
times  
instead  
give  
youth  
educat+  
remain+  
amref  
apart  
recreat+  
counseling  
process  
practice  
change+  
whole  
person+  
chance+  
who  
may  
behavior+  
remove+  
service+

# 4

garbage  
collect+  
clean+  
baiai  
accident+  
bed+  
sell  
hospital+  
fish  
mosquitoes  
patient+  
ailments  
stagnant  
infrastructure  
pedestrians  
share  
outbreak+  
office+  
due  
human+  
their  
ward+  
disease+  
poor+



# TZ, Kinondoni, 5 Focus Group Discussions – ALCESTE results: 5 overall clusters

Education: Childhood/ technology <b>Cluster 1</b>	Ask , children, parents, student, start	you #find that someone has already #forgotten about #studying and then you are #told that you have to #repeat the #exams because they leaked, they #repeat the #exams but you #find that the #students who are not the ones we need
Media: Programming reach <b>Cluster 2</b>	Program, listen, radio, media, able	#discovery channel national geographic I #don t #actually know the #name of the #program. I #watch MNET #mostly I have ever #watched a #program #called kiti moto it used to #air on ITV a few years ago,
Aids: Health care facilities <b>Cluster 3</b>	Aids, Posit+, educat+, know, Person	what they are doing #right now is they look for people who are HIV #positive at mwananyamala hospital, #instead they will #go looking for their #relatives who are HIV. they #know you are their but they would not #give you the #chance and I #think we should #try and #eradicate such #k kind of opportunists.
Infrastructure: Water, transportation, roads <b>Cluster 4</b>	Garbage, Hospital, clean, patient	our #environment would also be #clean as in the #garbage would be #collected in time, and also we would have #proper #hospitals #to #cater for the raising #human #population. #to #add #to that me I think it s the #poor #infrastructure; there is no overall #plan of having a #clean #environment.
Environment: government policy <b>Cluster 5</b>	Tree, down, car, dump, construct	they can #construct it well and #buses can be passing there I believe that also in other #places there are #outlets which can #solve and decrease this #traffic #jam #problem and #things like that.

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of world literature

---

Frank N. Magill, Editor

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# Microsoft Auto-Summarize (MS Word 97)



Monday, December 8 12:01 EST

## Word 2004 to Pioneer AutoUnsummarize Feature

By Sam Gentle

Redmond, WA - Microsoft announced a revolutionary new feature will appear in Word 2004 called AutoUnsummarize. The technology works by taking short, concise sections of text and expanding them to any specified length.



"The technology is simple," said Microsoft Office Research Division Head, Richard Greenwood, "students have been doing it for years. Thanks to the power of Microsoft Word 2004, anybody can turn a five-hundred-word report into a ten-thousand-word masterpiece."

Microsoft programmers discovered the technology after coding the AutoSummarize code in reverse as an April Fool's Day prank. From there it gained unexpected popularity within the department.

College student Chris McLaughlin reacted favorably to the news. "This is the best," he said, "I always hated screwing with the margins and font sizes just to get my reports to the required length. Now all I have to do is write a hundred words and hit the unsummarize button. Wham! Instant marks. I love it."

"What an idea," remarked business leader Karl Armitage, "with this there's nothing I can't do in a few seconds. Reports, interim reports, subinterim reports... just about anything. I thought I had it easy before, but now I can finally live up to my websurfing potential."

# *The Da Vinci Code* in 500 words (MS Word)

Floor shook. The man man." "Paris? Tonight. Teachers. Tonight's Interpol, - thought. - rolled his eyes. I felt Never." "Messieurs," - called out, and the men turned. - turned. Men enter the lives." Tonight, - felt confused. - felt - turned, appalled. - eyed the naked man, and grunted. "The Church, sir. Tonight, If Da Vinci. da Vinci's Vitruvian Man. God phone. If a code turned off." phone. The man fled, time. phone. Finding the men's room door, - entered and turned on the lights. - felt lost. floor. eyes. "Still in the men's room, sir." room. phone message. Call me. Even if are his man. - turned. "Still in the men's room!" - called. eyes. grandfather." call it. words. Da Vinci... Leonardo da Vinci! Leonardo da Vinci! - smiled. secret." - nodded, eyeing the keys in his hand. police." Not tonight, - thought. across the church's floor. The Rose Line, - thought. Rose Line!" The man had reached If — " Church. secret. Vinci. - smiled. If you right side. message. The Vitruvian Man, he thought. If the - felt his box. door. "Call your "Sir?" an eye. - smiled. "The Holy Grail?" Holy Grail. words. head. The Holy Grail. men to carry. the Holy Grail?" Priory members wait - thought. - turned and - paused, turning. "Yes?" world. The man smile. bank. tonight. Even if she police? Tonight's Vinci. - smiled. - smiled. head. "Find the Holy Grail?" Grail seekers, familiar Rose windows. keystone. Grail is!" Even if - thought. seek the Grail. Grail." Grail. - eyed him. Grail. - eyed him. - smiled. "If you life. spoke. Grail." - smiled. Man Church." - paused, eyeing -. Close your eyes if you would." The Holy Grail. No Holy Grail. - smiled. Church. It was man, "No sirens, men. sense. "The Holy Grail. - smiled. men." Church? - turned. called Mary Magdalene. Magdalene the Holy Grail." When Grail legend Paris. Holy Grail. HOLY BLOOD, HOLY GRAIL sense. "Sir -?" "If you If you would." fervent green eyes. "Sir?" The Priory keystone." keystone." "Sir? - choked, eyeing -. Even if your grandfather were the Priory moment. keystone." "The Church." Church." If Tonight - smiled. - felt foolish. Secret. keystone." - turned to -. lights. "Sir?" If you didn't "Sir?" keystone! phone. words." box. headed. - thought. "If they're - eyed her carefully. Black on the men." god. -'s grandfather. -'s eyes turned to saucers. - smiled. If Priory keystone. room. The man shrugged. knighted." - smiled. The Grail. Thought Men of Now - turned. paused, eyeing - as if waiting for light to dawn. The church - eyed -. speaks of the Grail? - smiled. "Banks?" The men - called excitedly. - turned to -. "If you call the police..." Church. head. - felt panicked. If you Even if — changed "Agent -?" "Agent -!" box?" knight. world. voice. Grail. Grail. Grail. The Grail. SEARCH key. - eyed the screen. knight." Church. man. - felt disappointed. "If right." - turned to -. - eyed -. - demanded, eyeing the gun. - thought. Every Grail grandfather's murderer. time. The enormous man sighed. place." - closed his eyes. Grail. my grandfather. Protect the Grail. right before your eyes, -. keystone. hidden!" - smiled. Grail's original hiding place. The young man nodded. - turned back to the young man. grandfather." eyes. Priory? "Never?" sanctuary floor. time. Paris's ancient Rose Line. Da Vinci...

Langdon groaned. Langdon cringed. "Mr. Langdon?  
Langdon paused. Langdon managed. Langdon *Interpol*,  
Langdon thought. Langdon Langdon frowned. "Robert  
Langdon." Langdon asked. Langdon turned. Langdon  
sighed. Langdon felt confused. Langdon felt. Langdon  
turned, appalled. As Langdon. "Mr. Langdon?" Langdon  
frowned. Langdon paused. Langdon shrugged. Langdon  
stared. "Monsieur Langdon," Sophie shrugged.  
Langdon listened. Langdon closely. Langdon. Langdon  
demanded. Langdon demanded. Langdon felt lost.  
Langdon nodded. *Langdon. Find Robert Langdon.*  
Sophie sighed. *Princesse Sophie*" "Where's Langdon?"  
"Sophie?" Sophie Sophie nodded. *Princesse Sophie,*  
*Find Robert Langdon.* Sophie needed Sophie sighed.  
"Where's Langdon?" Langdon's moving!" *Langdon ran.*  
Langdon. Langdon frowned. Langdon grinned. Langdon  
nodded. Langdon said. Langdon challenged.

Floor shook. The man, man. "Paris? Tonight. Teachers. Tonight's Interpol," – thought. - rolled his eyes. "I felt Never." "Messieurs," - called out, and the men turned. - turned. "Men enter the lives." Tonight, - felt confused. – felt - turned, appalled. - eyed the naked man, and grunted. "The Church, sir. Tonight, if da Vinci. da Vinci's Vitruvian Man. God phone. If a code turned off." phone. The man fled, time. phone. Finding the men's room door, - entered and turned on the lights. - felt lost. floor. eyes. "Still in the men's room, sir." room. phone message. Call me. Even if are his man. - turned. "Still in the men's room!" - called. eyes. grandfather." call it. words. Da Vinci... Leonardo da Vinci! Leonardo da Vinci! - smiled. secret." - nodded, eyeing the keys in his hand. police." Not tonight, - thought. across the church's floor. The Rose Line, - thought. Rose Line!" The man had reached If —" Church. secret. Vinci. - smiled.



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*created by*

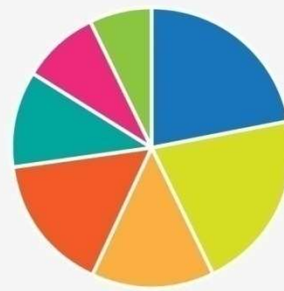
Jonathan Feinberg @ IBM



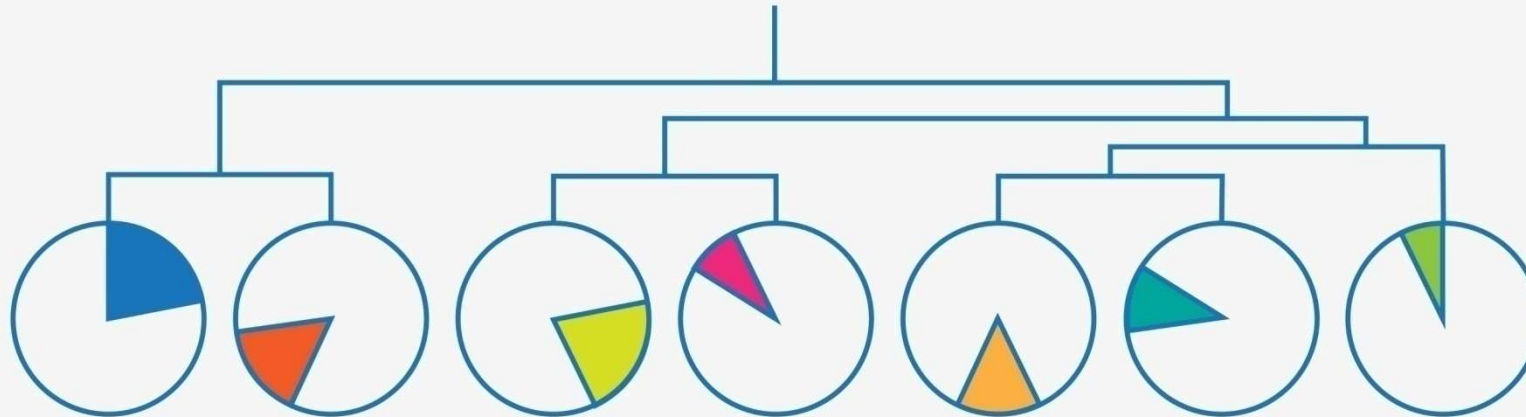
right knighted  
naked eyed SEARCH legend  
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Black da sighed eye Paris's Teachers spoke Man HOLY  
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enormous Rose Magdalene demanded  
moment Men paused lost appalled knight  
turned Vinci  
ancient Leonardo reached Never foolish keys  
keystone Now voice  
light Finding Secret call sense men  
Paris seek looperpel members  
phone Holy called  
GRAIL granted lives Messieurs key secret  
eyes grandfather  
shook settle saucers church code  
Line man  
gun Call Yes error Close across panicked  
place men's floor tonight Vince's  
Vitruvian chicken disappointed windows carry  
eyeing felt  
wait Banks Protect door Mary message  
side Tonight's speaks Mary down back  
thought  
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room carefully shugged BLOOD  
Tonight  
hidden world rolled young  
confused Even  
church's police Sir

<http://www.wordle.net/>

Alceste analysis  
of *The Da Vinci Code*



- 1 22%
- 2 21%
- 3 14%
- 4 16%
- 5 11%
- 6 9%
- 7 7%



1

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6

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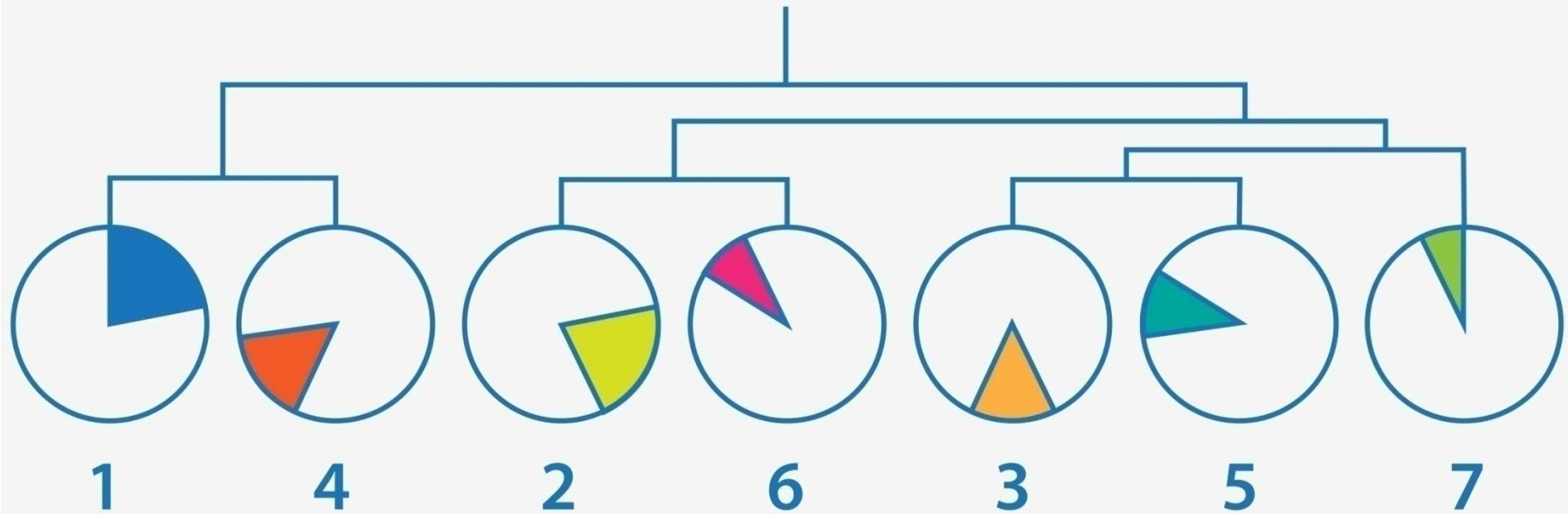
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tonight+  
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7

aringarossa+  
silas+  
bishop+  
teacher+  
secretariat+  
remy+  
bond+  
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vatican+  
task+  
opus  
sulpice+  
flight+  
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sister  
sandrine+  
cardinal+  
grateful+  
change+  
welcome+







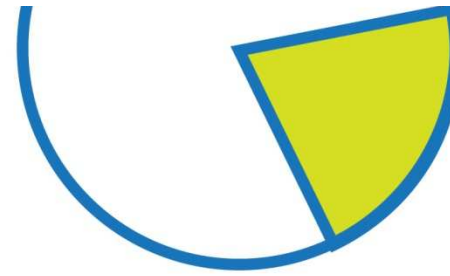
1

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poem+  
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letter+  
langdon+  
fibonacci+  
priory+  
art+  
sequence+  
man+



4

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jesus+  
magdelene+  
histor+  
mary+  
christian+  
church+  
bloodline+  
sangrael  
constantine+  
religion+  
world+  
dei+  
god+  
royal+  
priory+  
opus  
vatican+  
power+  
sacre+  
gospel+



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grabb+  
arm+  
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reach+  
door+  
pocket+  
belt+  
cut  
empty  
blood+



6

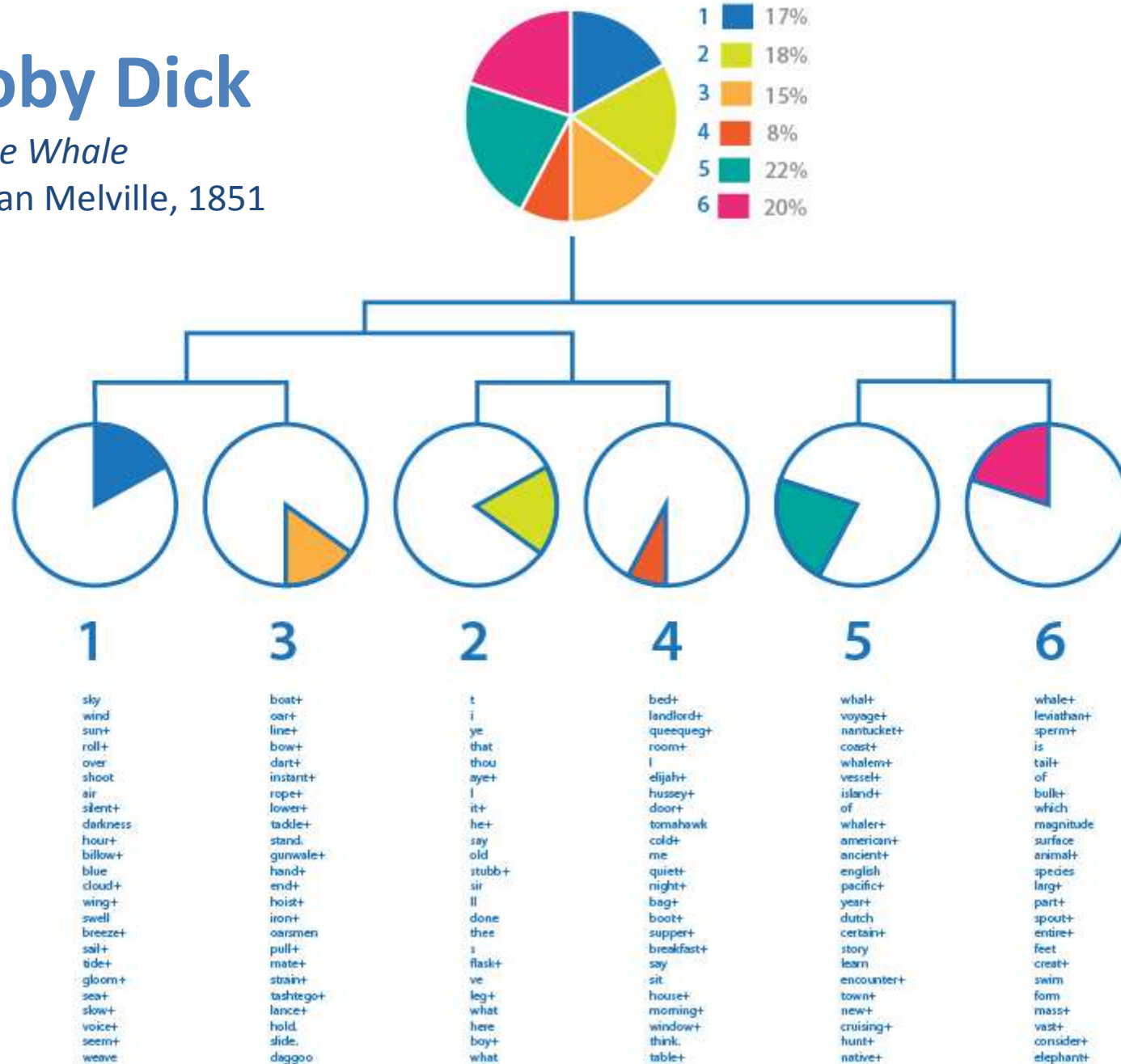
gallery+  
louvre+  
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corridor  
salle  
etats  
light  
hallway+  
museum+  
pyramid+  
house+  
grand+  
down  
center+  
carrousel  
cloister+  
ahead  
illuminate+  
security+  
darkness  
wing+  
alarm+

# Alceste analysis of *Moby Dick*

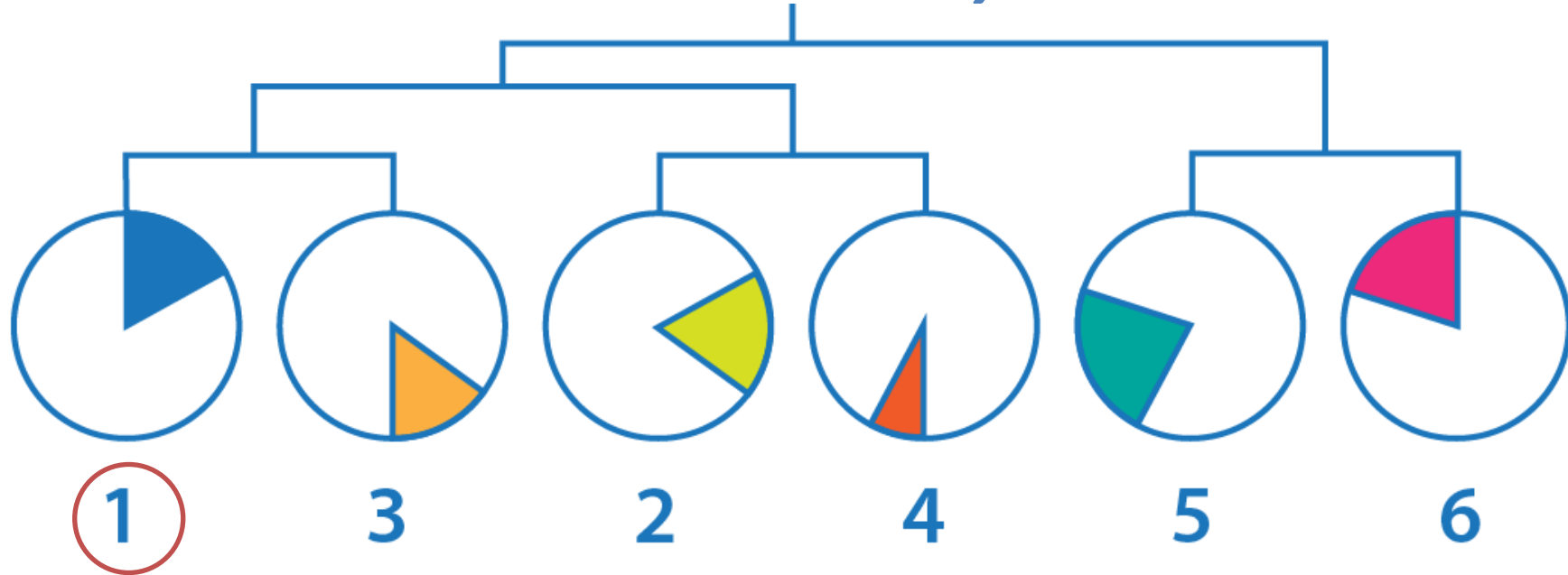
# Moby Dick

or, *The Whale*

Herman Melville, 1851



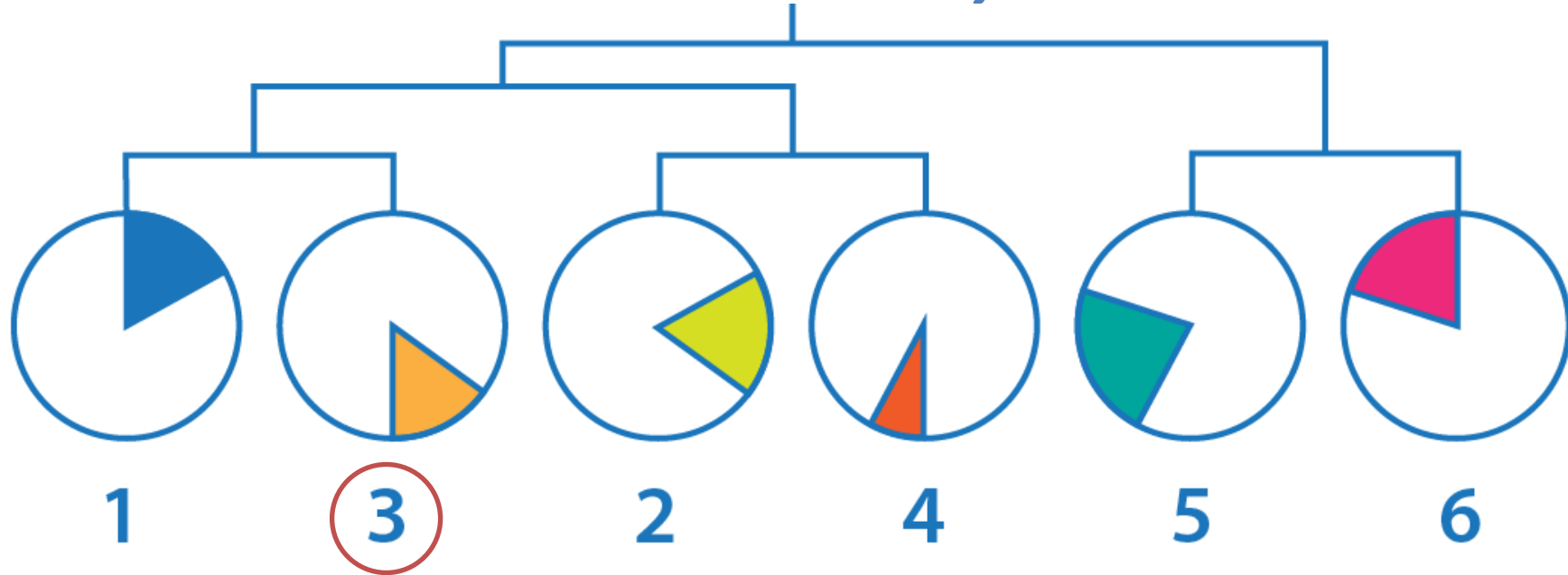
# Terms in *Moby Dick*



**1:** sky, wind, sun, roll, over, shoot, air, silent, dark, billow, blue, cloud, wing, swell, breeze, sailless, hour, tide, gloom, sea, slow, voice, seem, weave

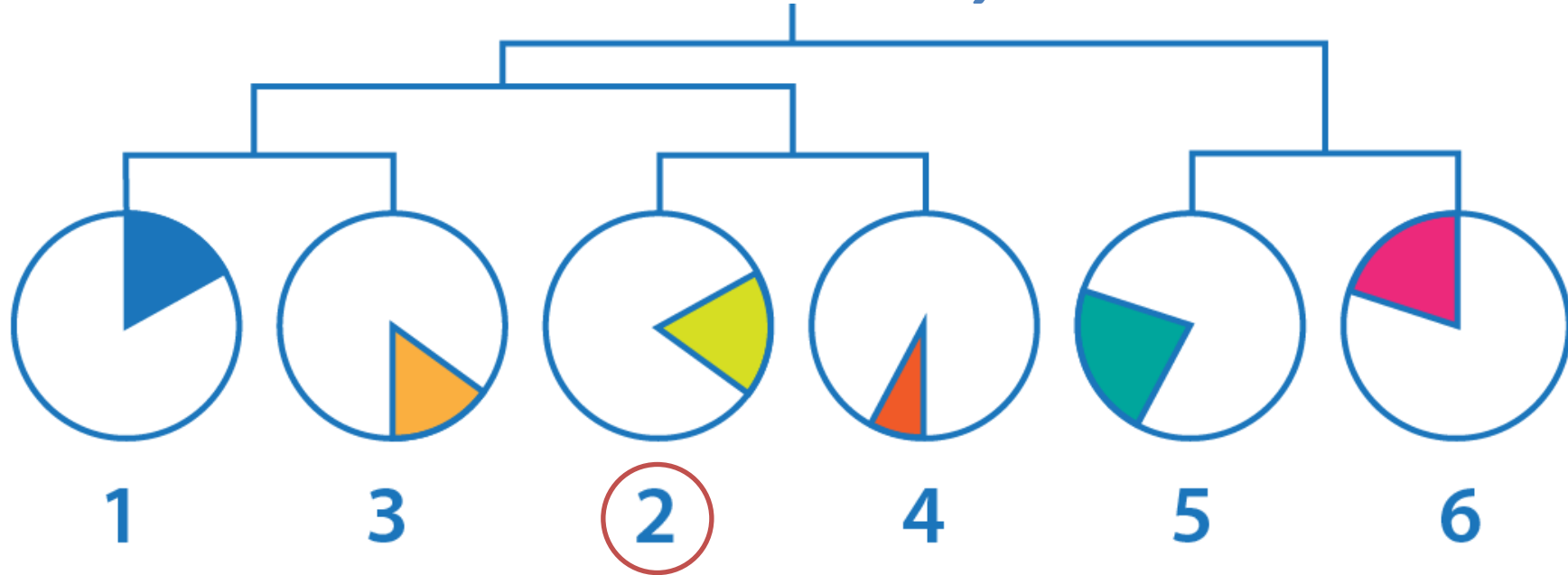


# Terms in *Moby Dick*



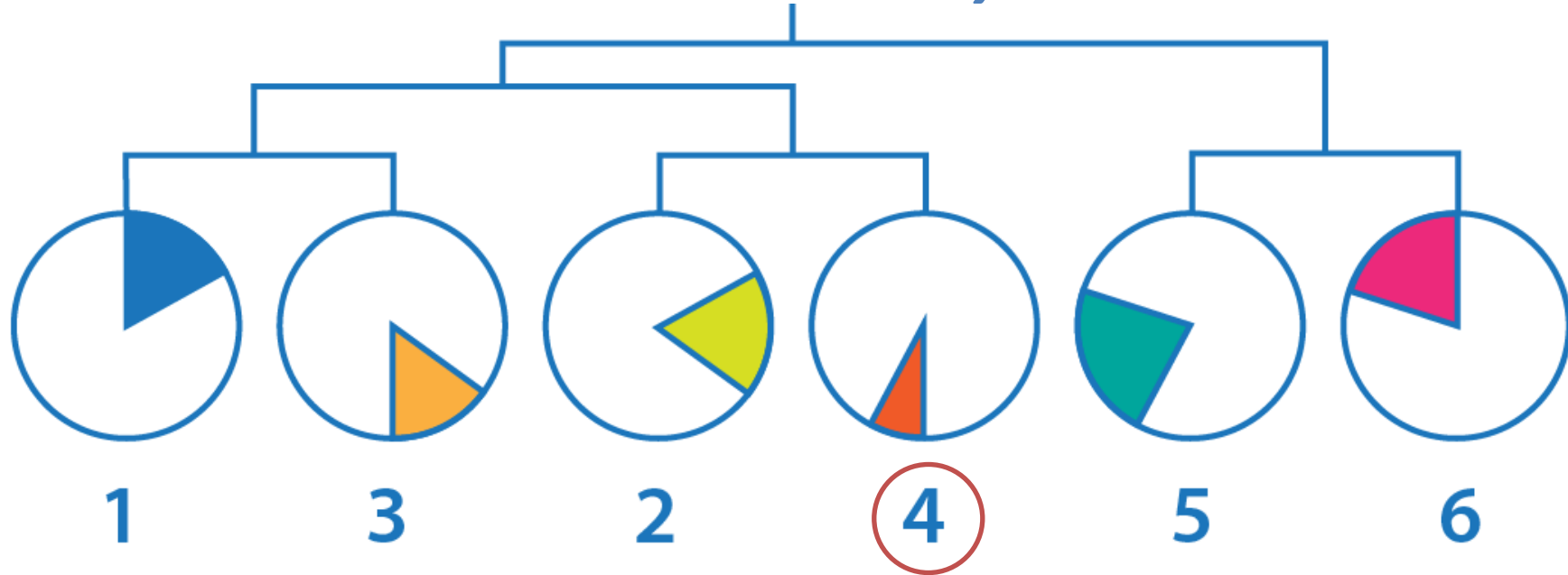
**3:** boat, oar, line, bow, dart, instant, rope, lower, tackle, stand, gunwale, hand, end, hoist, iron, oarsmen, pull, mate, strain, tashtego, lance, hold, slide, Daggoo

# Terms in *Moby Dick*



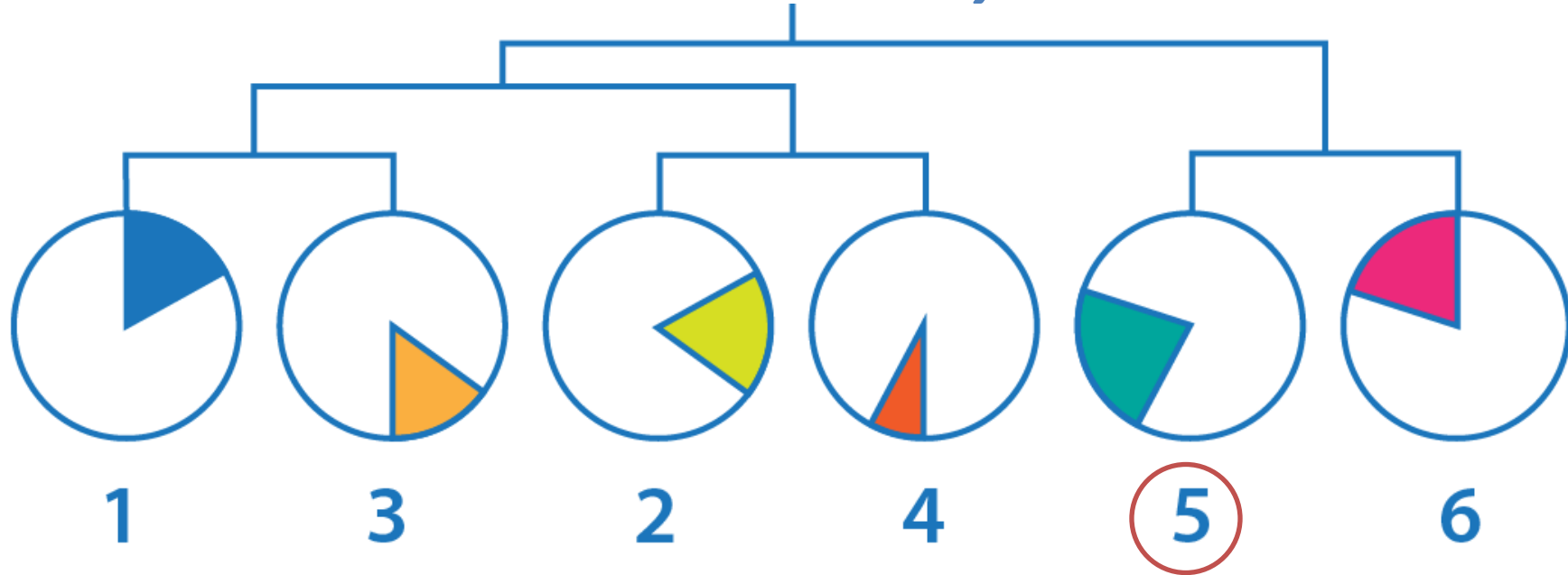
**2:** t, i, ye, that, thou, aye, I, it, he, say, old, Stubb, sir, 'll, done, thee, 's, flask, 've, leg, what, here, boy, what

# Terms in *Moby Dick*



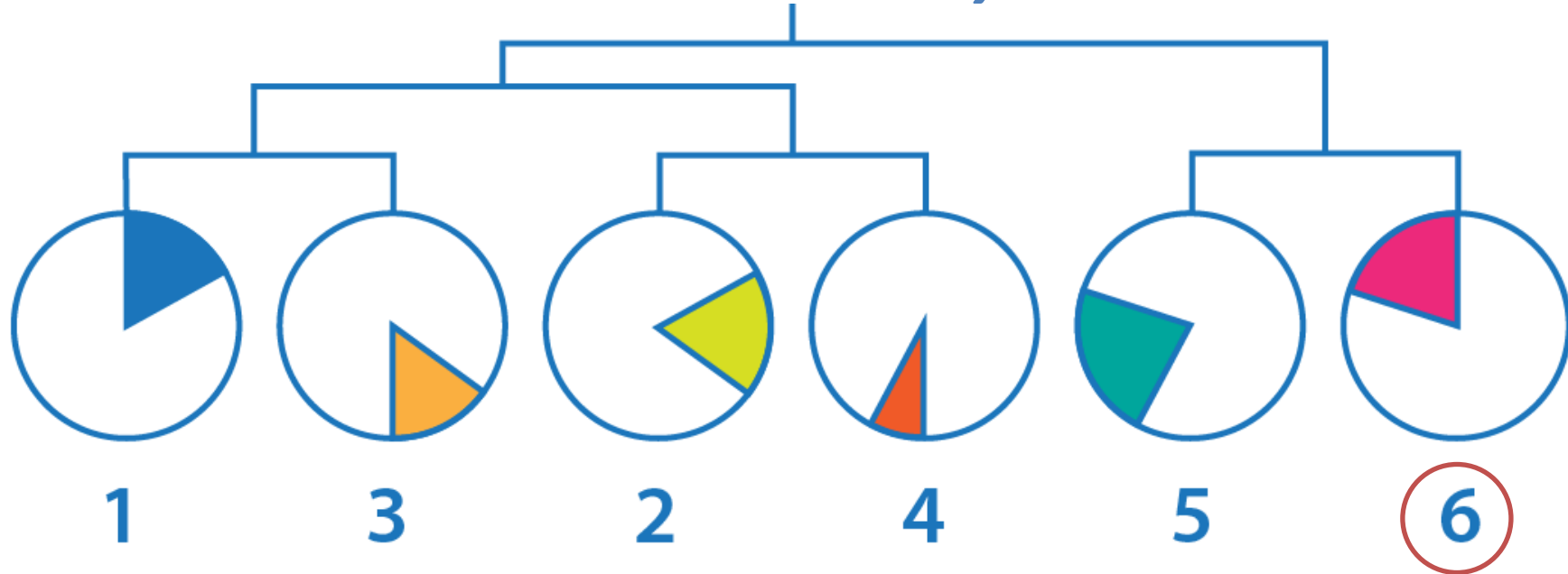
**4:** bed, landlord, Queequeg, room, I, Elijah, hussey, door, tomahawk, cold, me, quiet, night, bag, boot, supper, breakfast, say, sit, house, morning, window, think, table

# Terms in *Moby Dick*



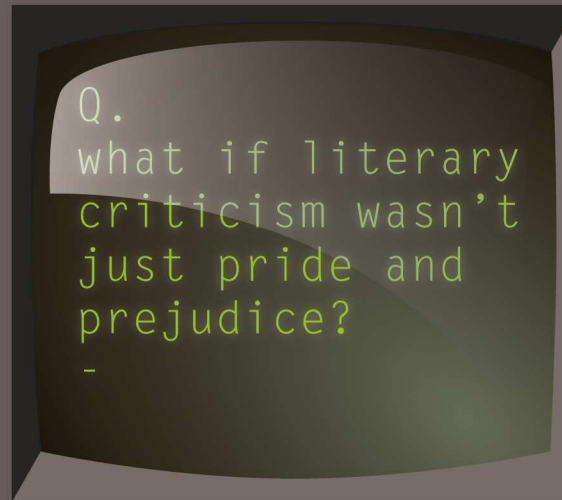
**5:** whal[ing], voyage, Nantucket, coast, whalemens/man, vessel, island, of, whaler, American, ancient, English, Pacific, year, Dutch, certain, story, learn, encounter, town, new, cruising, hunt, native

# Terms in *Moby Dick*



**6:** whale[s], leviathan, sperm, is, tail, of, bulk, which, magnitude, surface, animal, species, large, part, spout, entire, feet, creat[ure], swim, form, mass, vast, consider, elephant

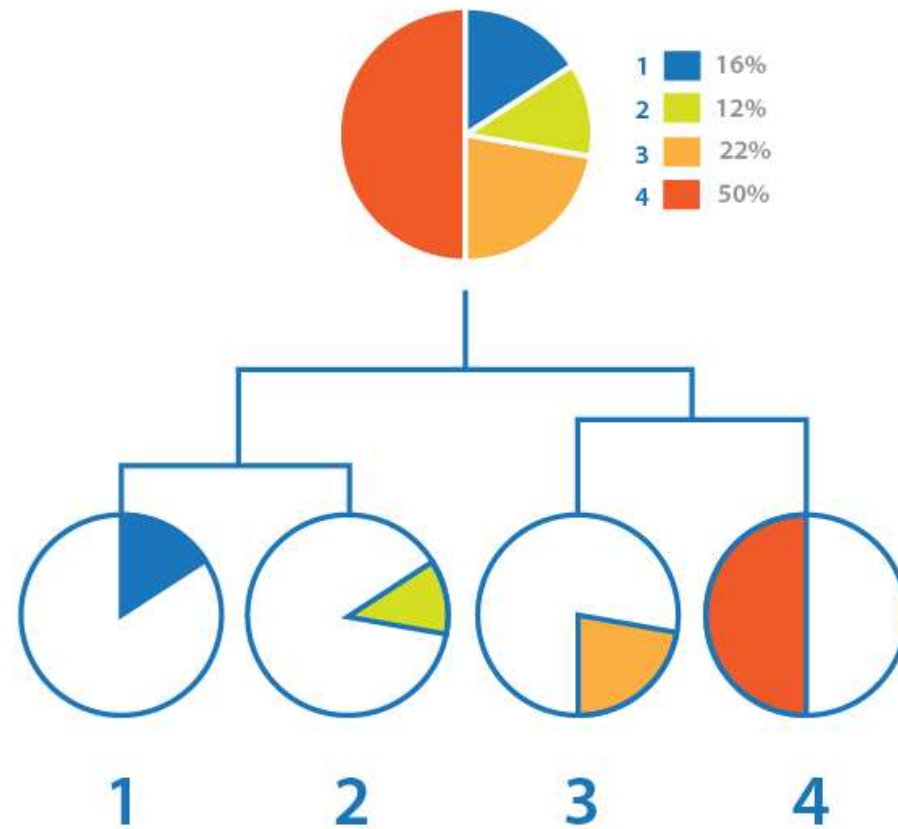




\*  
**how would a robot read a novel?**

# **The Kilburn Social Club**

by Robert Hudson (2009)

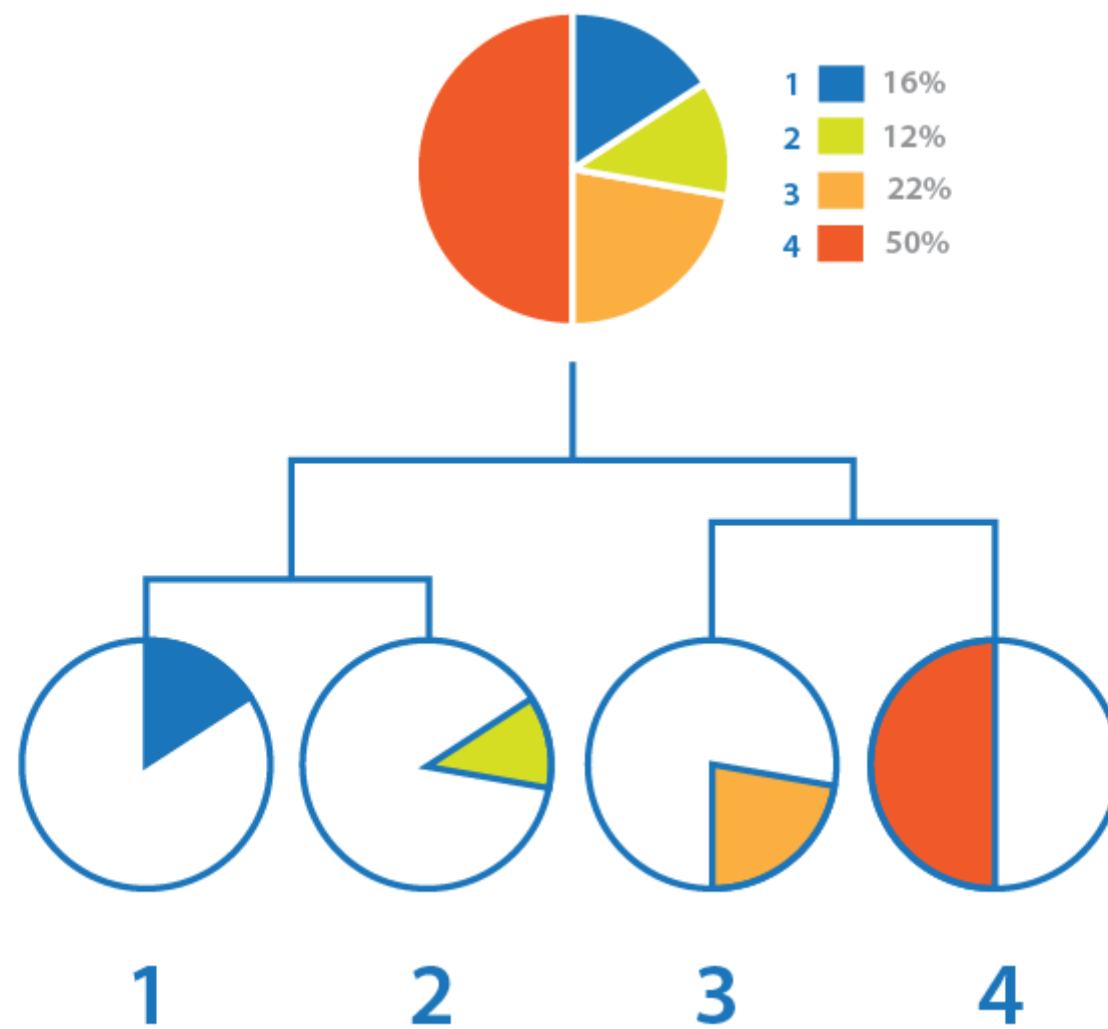


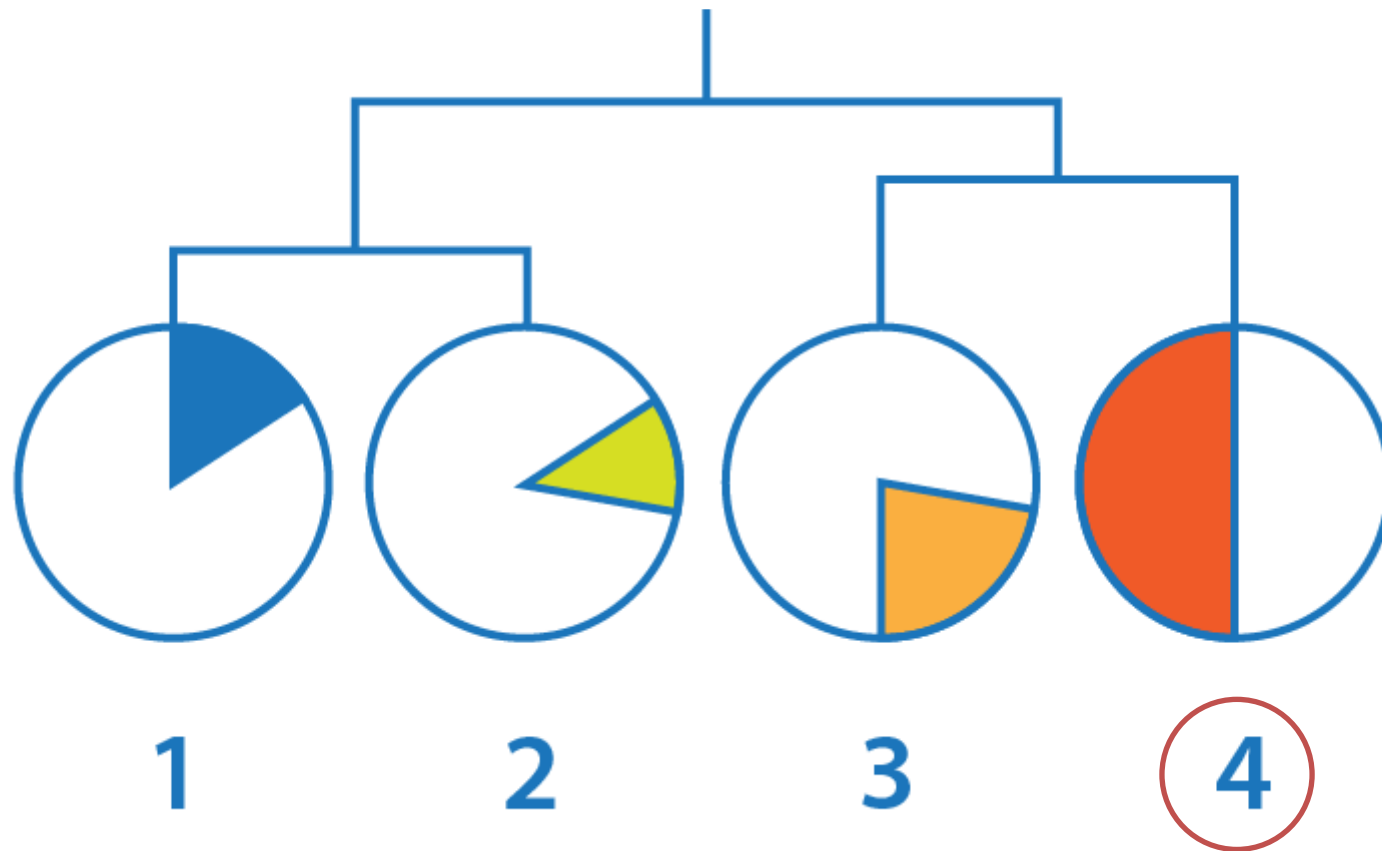
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hill 108  
sun 98  
hair+ 90  
road+ 87  
head+ 83  
leather+ 77  
sea+ 74  
white 73  
edge+ 70  
light 65  
dark 65  
feet 60  
green+ 58  
grey+ 57  
rain+ 56  
shirt+ 54  
air+ 53  
men 53  
sky 52  
his 51  
soft+ 51  
and 51  
minister+ 51

vlocker 190  
cole+ 190  
team+ 179  
drayly 165  
cup 163  
play+ 149  
game+ 142  
goal+ 136  
midfield+ 134  
cardiff+ 131  
benjamin+ 127  
score+ 120  
semi 119  
jonathan 116  
vale+ 111  
ball+ 106  
norman 99  
volendam 93  
derkin 93  
seung 91  
draw 89  
gaffer 86  
peanlt+ 86  
FA 85

rosslare+ 356  
group+ 296  
donald 283  
club+ 250  
money+ 236  
bursar 123  
business 123  
KSC 115  
esther 96  
sell 93  
strabis 86  
manus 80  
kilkenny 79  
kilburn+ 78  
adam 75  
decision+ 70  
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bill+ 62  
new+ 59  
wage+ 56  
charit+ 54  
fortune+ 53  
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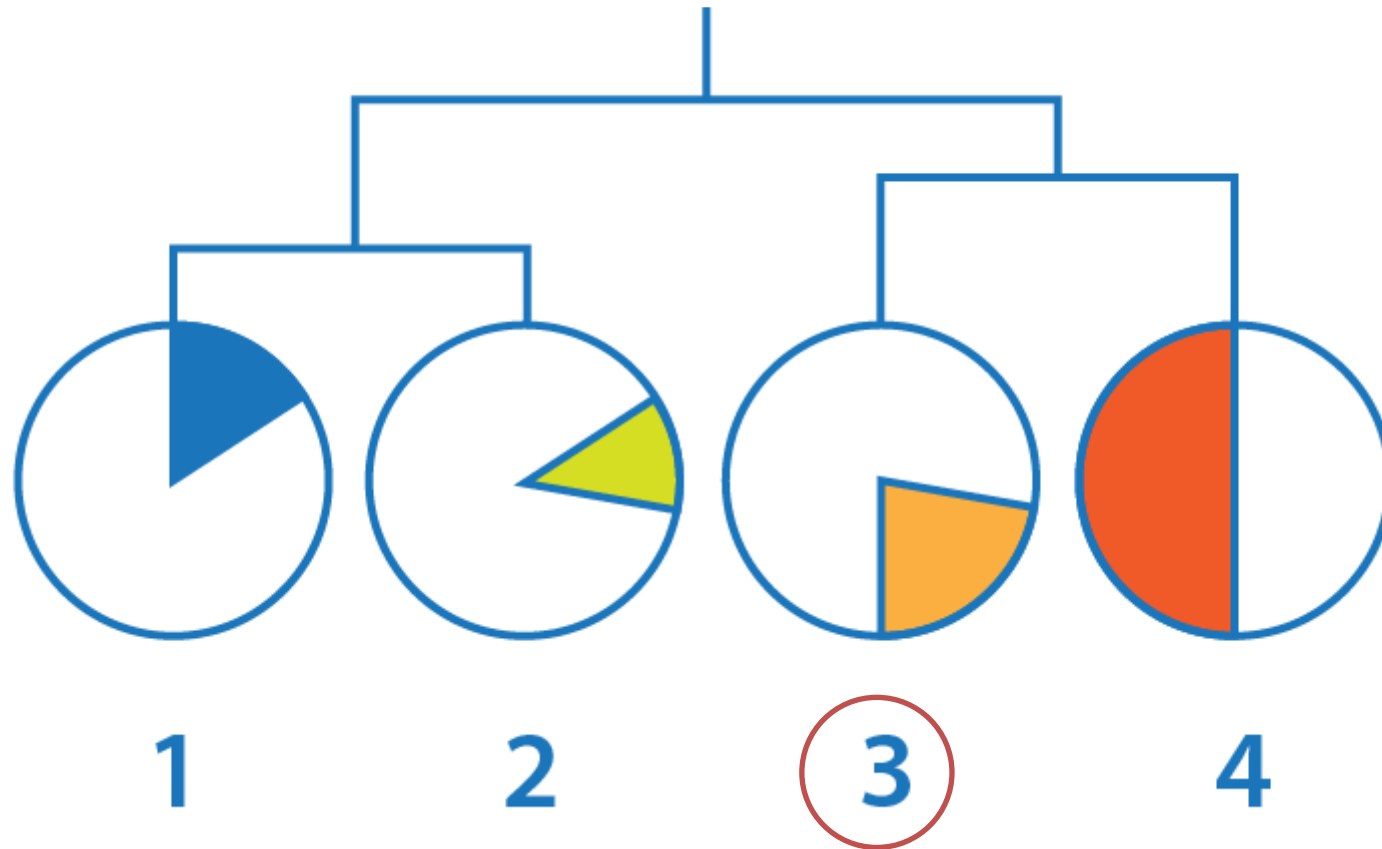
I 220  
you 198  
think 114  
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know 104  
dave+ 103  
say 98  
sally 98  
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ve 61  
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love+ 39



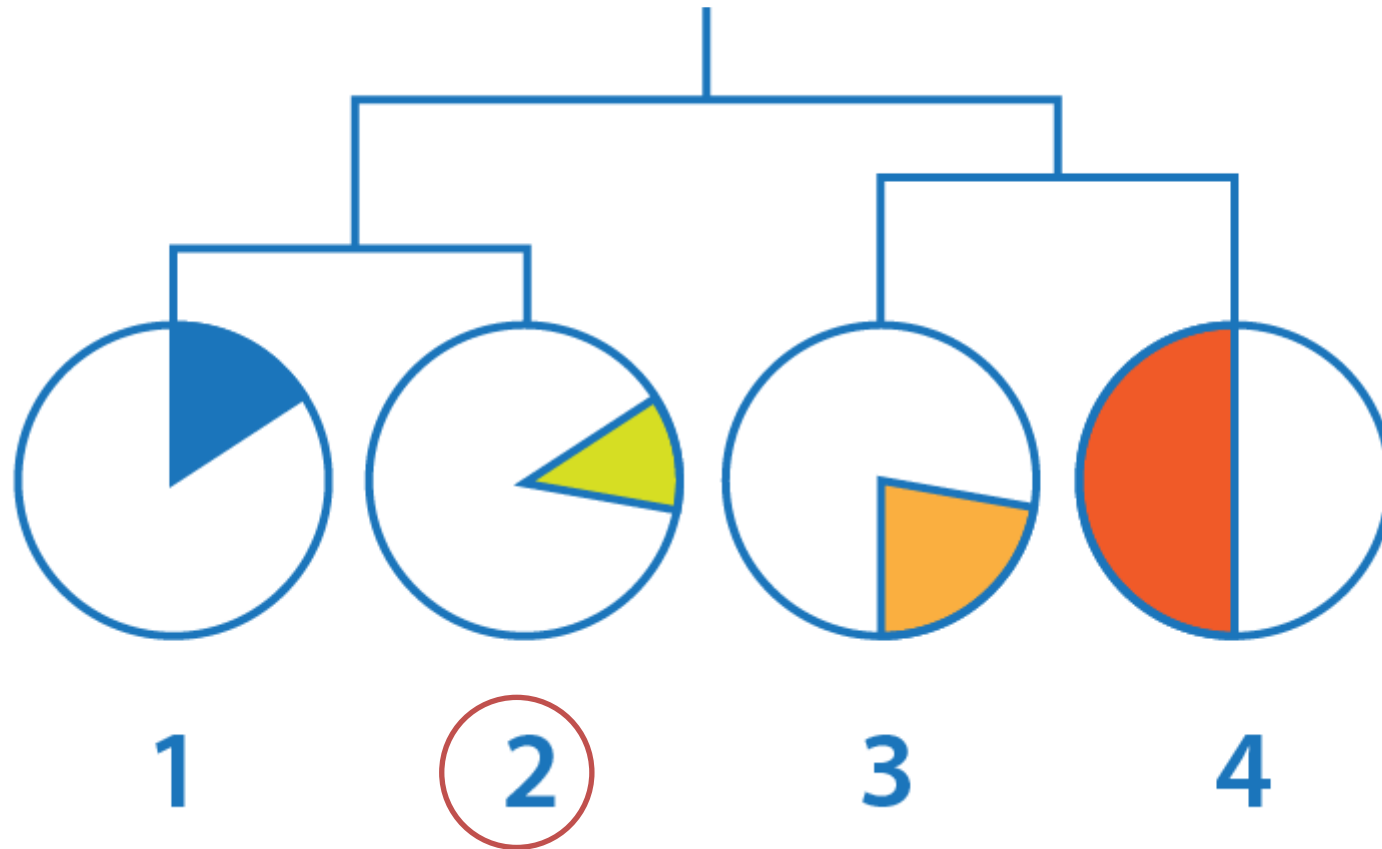


4: I, you, think, 't, know, Dave, say, Sally, 'm, she, don'[t], Jeremy, 've, it, Calum, what, write, me, Aisling, about, Monica, Punty, 're, love+

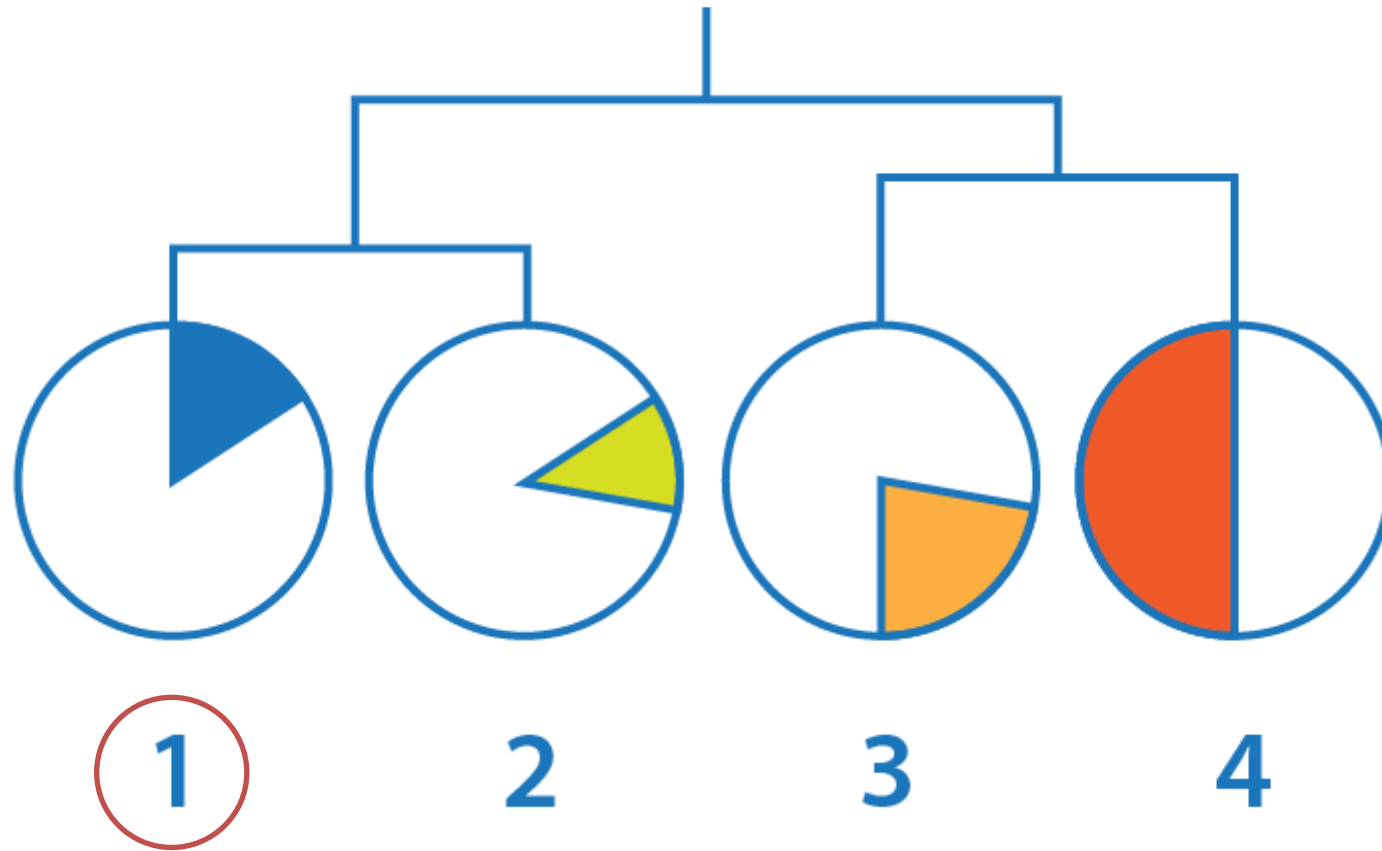




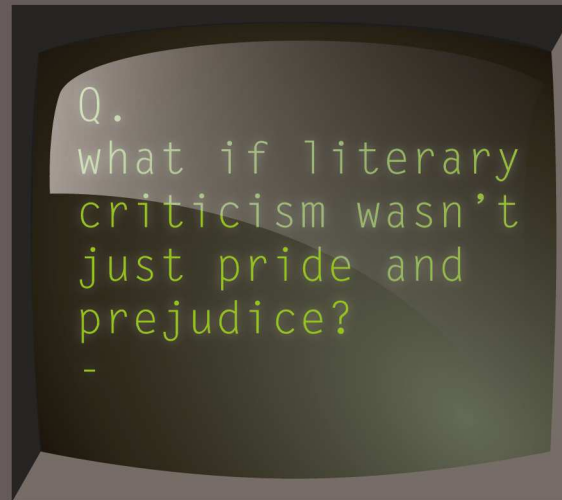
**3:** Rosslare, group, Donald, club, money, bursar, business, KSC, Esther, sell, Strabis, Manus, Kilkenny, Kilburn, Adam, decision[s], pay, miss[ed], bill, new, wage, charit[y], fortune, Greswell



**2:** Vlocker, cole, team, Drayly, cup, play, game, goal, midfield, Cardiff, Benjamin, score(s), semi, Jonathan, vale, ball, Norman, Volendam, Derkin, Seung, draw, gaffer, peanalt[y], FA



**1:** Walk(ing), hill, sun, hair, road, head, leather, sea, white, edge, light, dark, feet, green, grey, rain, shirt, air, men, sky, his, soft, and, minister



\*  
**how would a robot read a novel?**