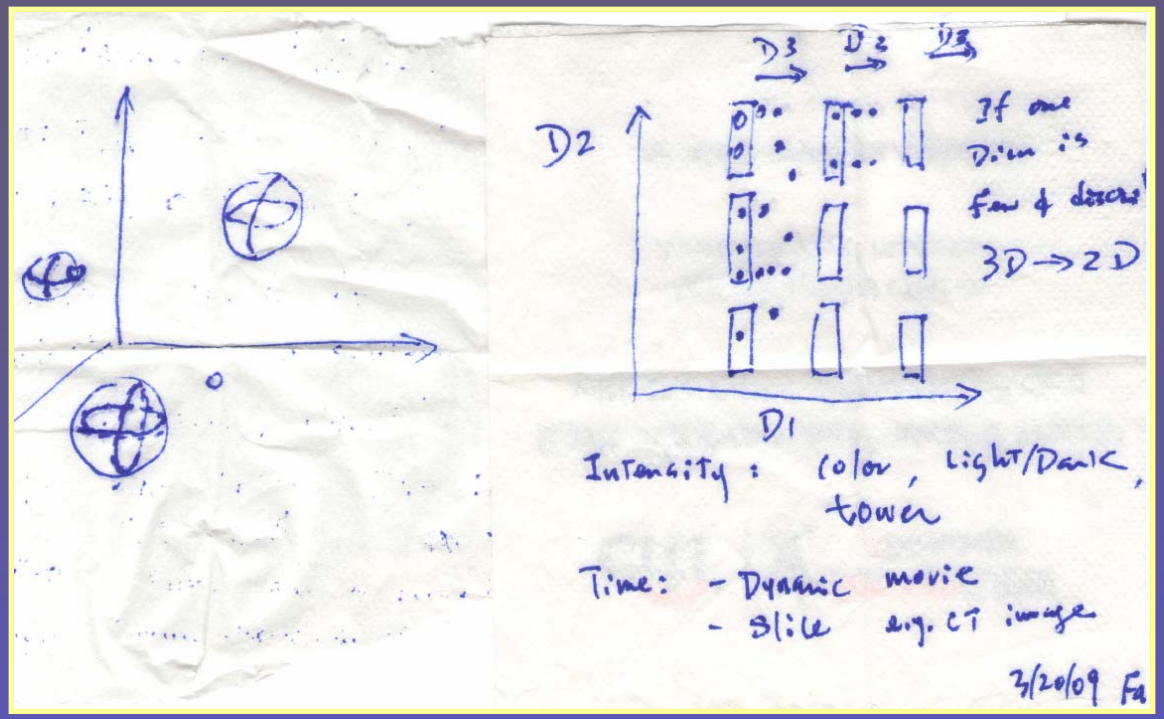
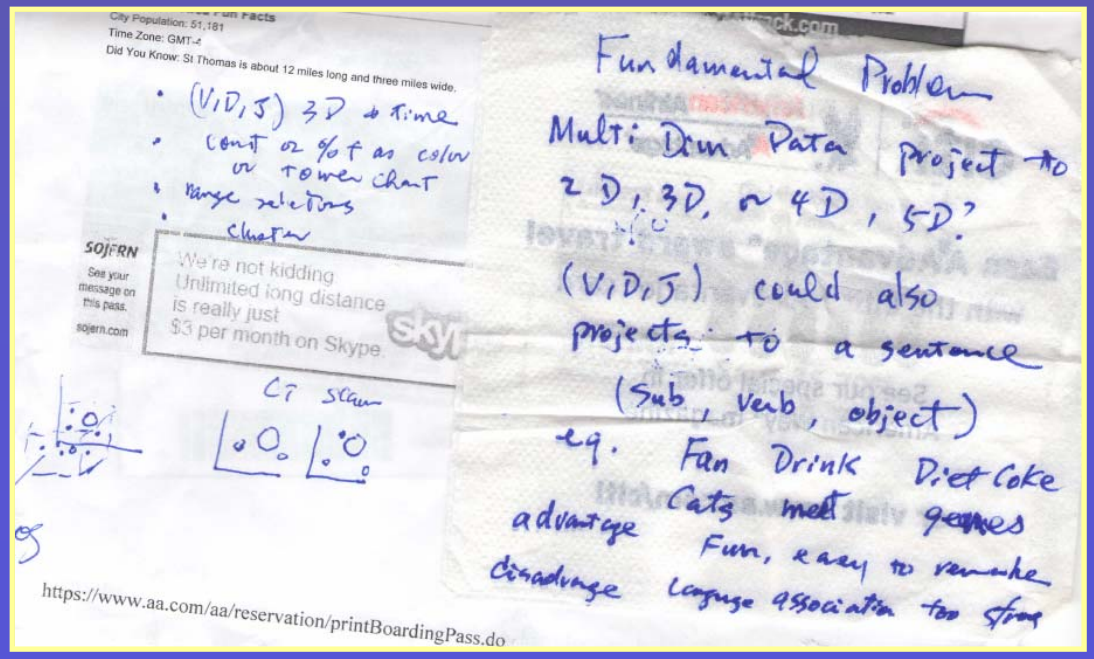
Some Thoughts from Fan

4/8/09

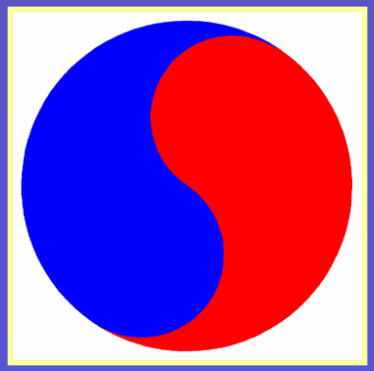

D3 D2 D3
D2
D1
If one Dim is few & discrete
3D → 2D
Intensity: color, Light/Dark, tower
Time: - Dynamic movie
- Slice e.g. CT image
3/20/09 Fa

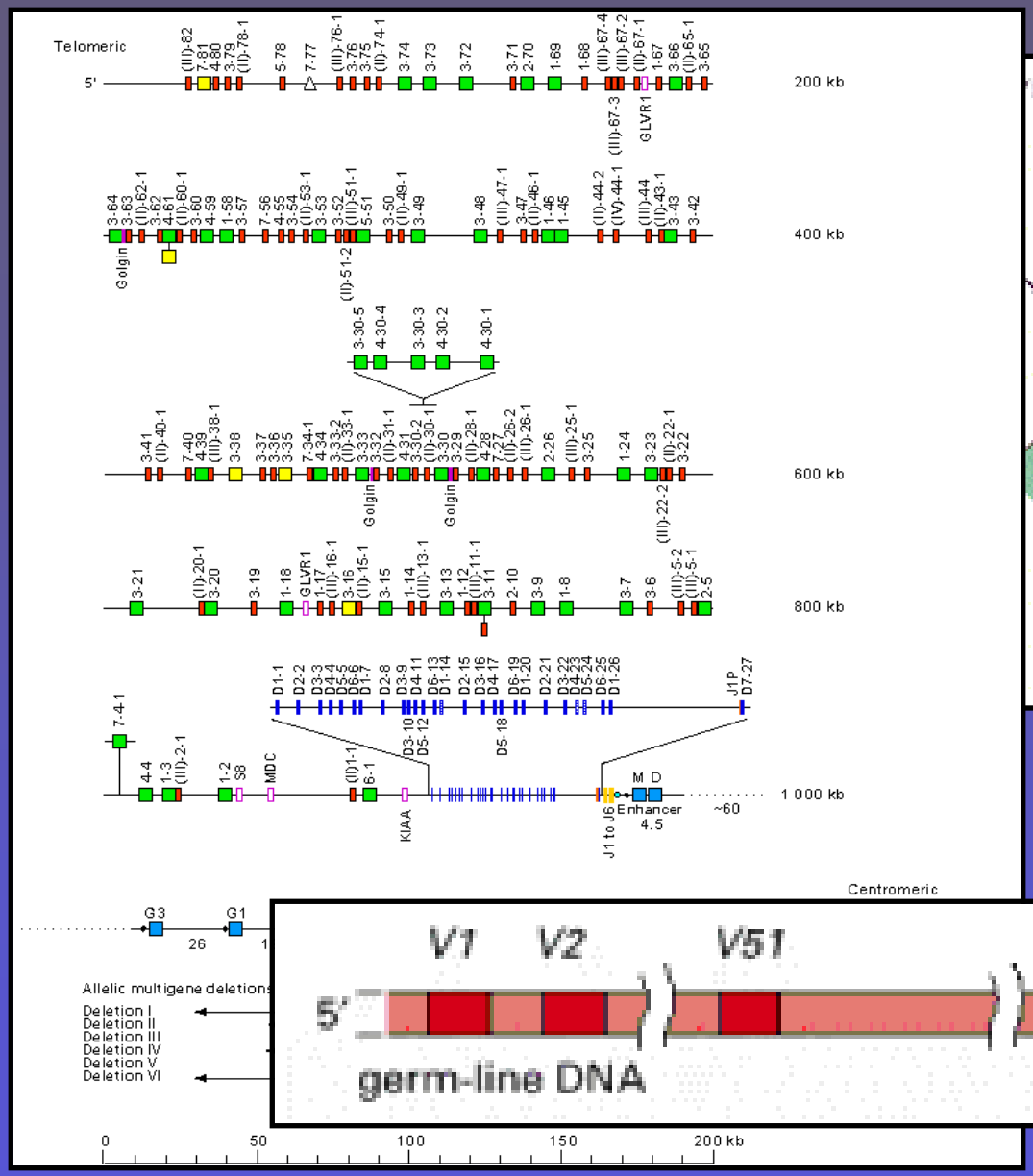

City Population: 51,181
Time Zone: GMT-4
Did You Know: St Thomas is about 12 miles long and three miles wide.
• (V,D,J) 3D + Time
• count or % of as color or tower chart
• range selections
• cluster
SOJERN
See your message on this pass.
sojern.com
We're not kidding
Unlimited long distance
is really just
$3 per month on Skype
CT scan
Fundamental Problem
Multi Dim Data project to 2D, 3D, or 4D, 5D?
(V,D,J) could also projects to a sentence
(Sub, verb, object)
eg. Fan Drink Diet Coke
Cats meet genes
advantage Fun, easy to remember
disadvantage language association too strong
https://www.aa.com/aa/reservation/printBoardingPass.do

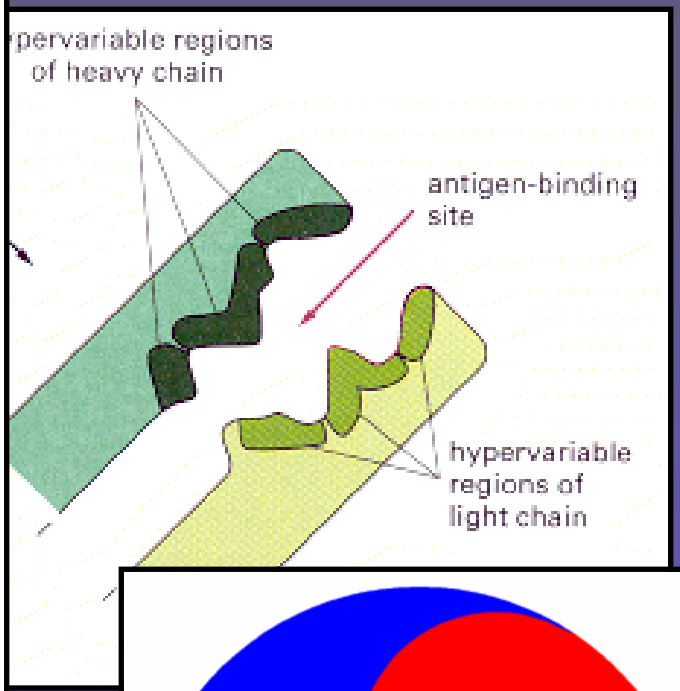
genome-immunology.ucsc.edu

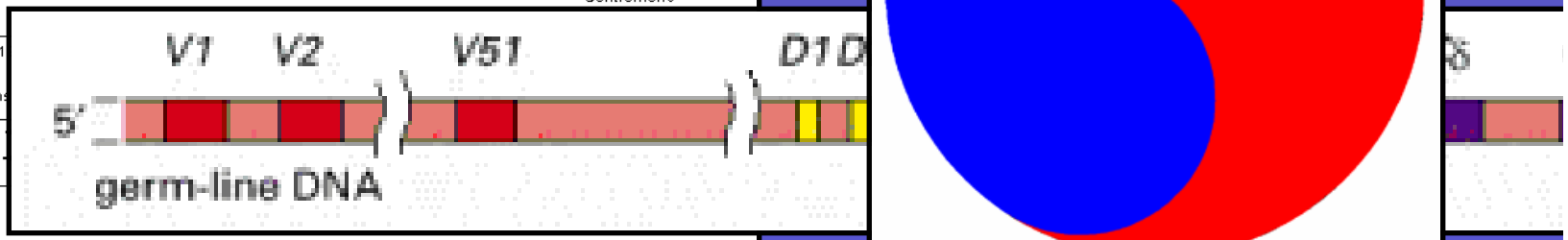
… The field of immunosurveillance, monitoring the status of the immune system in health and disease, is about to undergo a massive revolution as sequencing technologies get introduced in to it. …

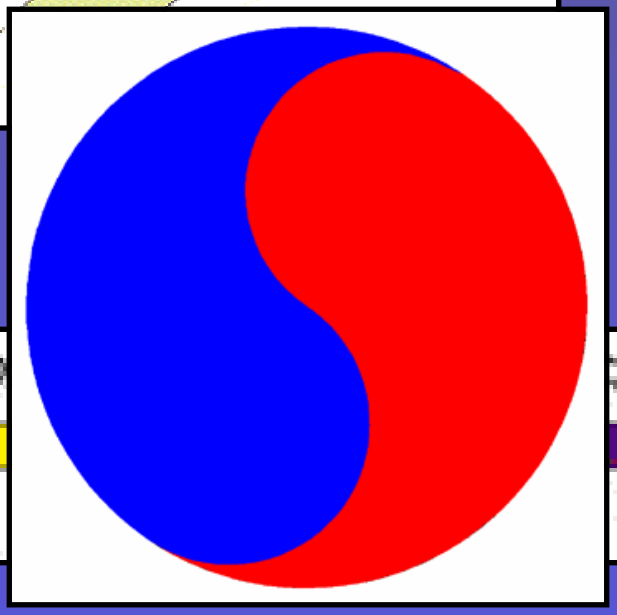
- David 3/7/09



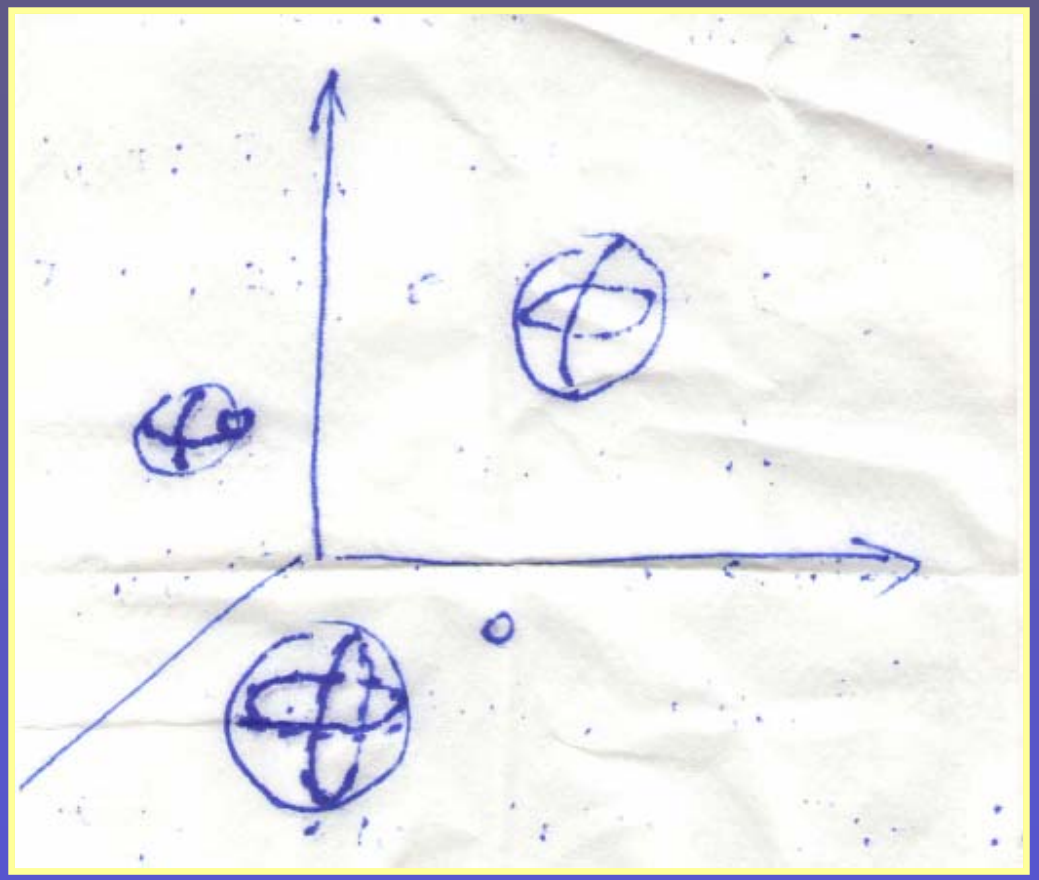

Telomeric
5'
200 kb
400 kb
600 kb
800 kb
1 000 kb
Golgin
KIAA
Enhancer
4.5
~60
Centromeric
G3
G1
26
Allelic multigene deletions
Deletion I
Deletion II
Deletion III
Deletion IV
Deletion V
Deletion VI
0
50
100
150
200 kb


pervariable regions
of heavy chain
antigen-binding
site
hypervariable
regions of
light chain


V1
V2
V51
D1D
5'
germ-line DNA

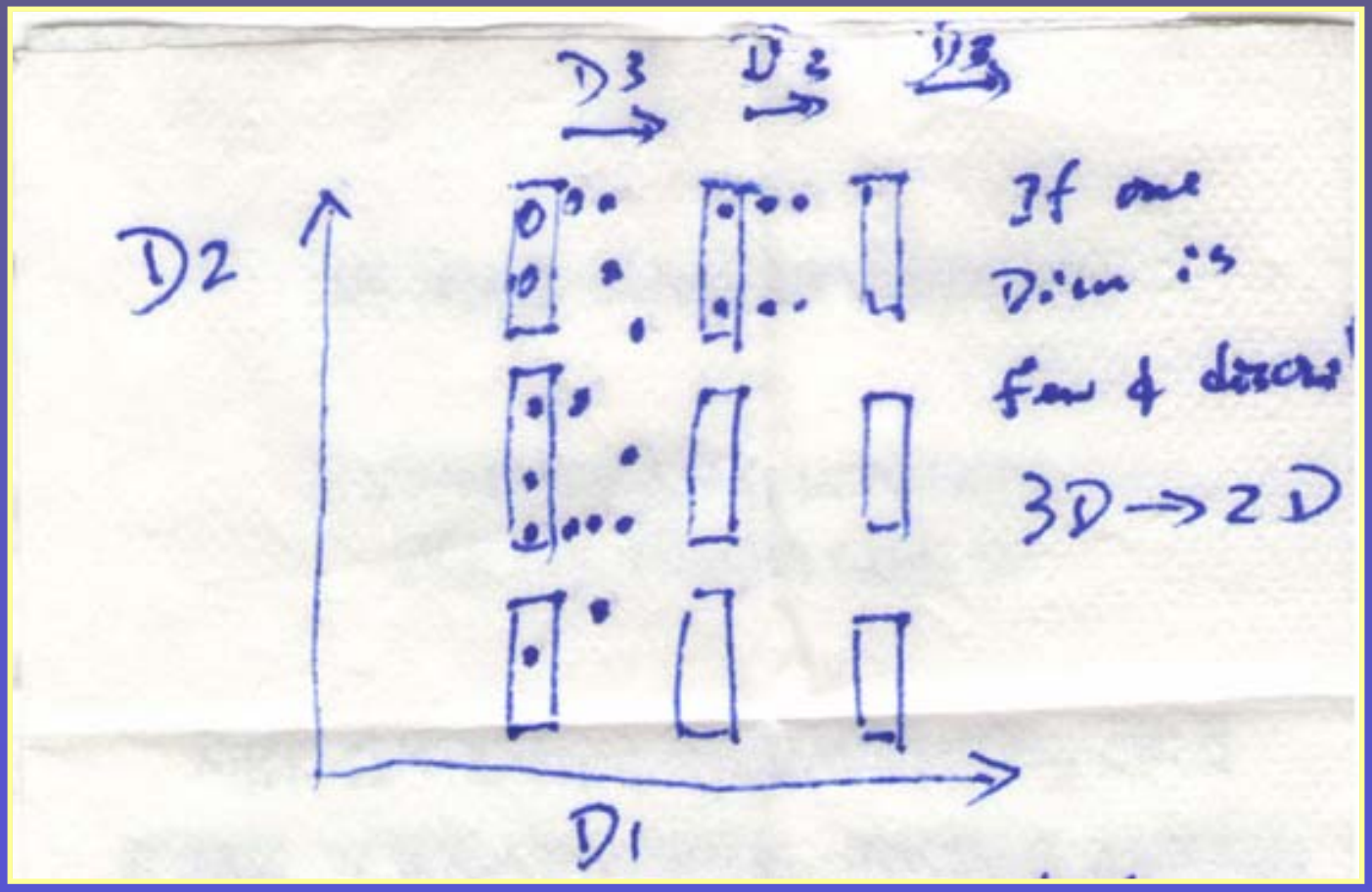


3D Representation



An Immunological Profile

3D → 2D



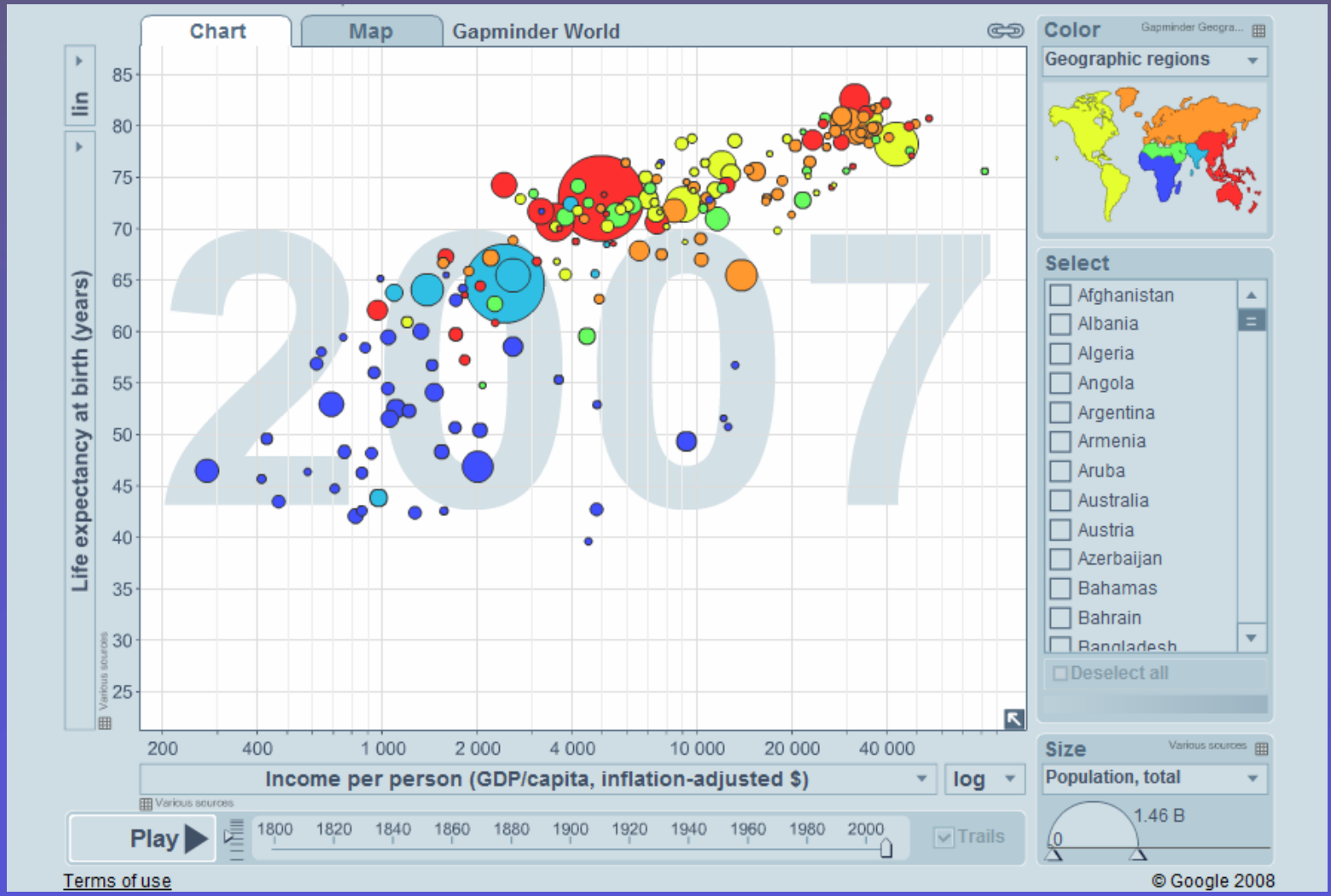
I-1b

Data Visualization

- Multi-Dimension Data projected onto fewer dimensional space

  1D → 2D → 3D → ?

Motion Chart



Data Visualization/Representation

- Multi-Dimension Data projected onto fewer dimensional space
- Other Dimensions/Senses
  - color, size, sounds, music, touch, …

It takes a difference to make a difference. I-F

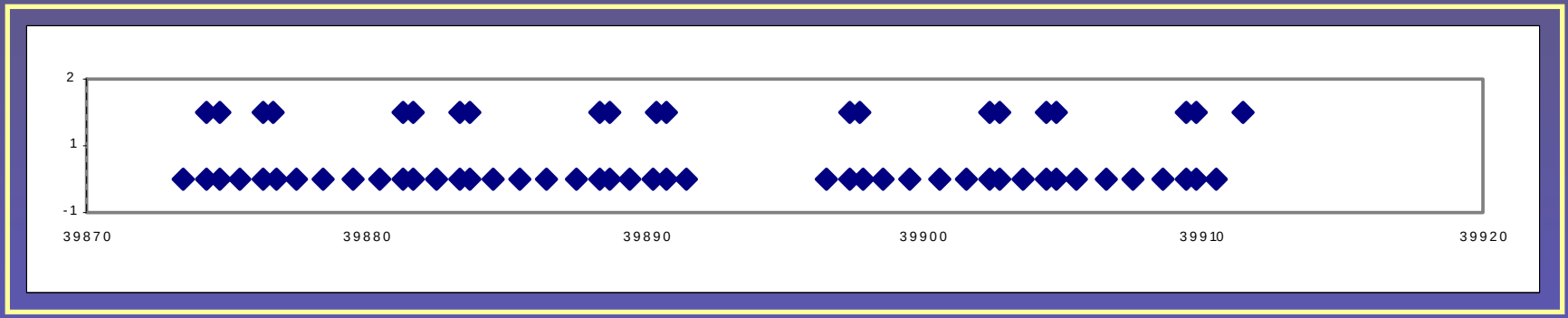
Data onto Language

- Data space onto word/concept space
  - e.g. map (V, D, J) → (subject, verb, object)

- Un-charted territory, unknown consequences
  - easy to remember
  - evoke powerful language association capacity
  - ...

Whatever you were smoking on this flight,
it sounds like it was a good one ;) -D

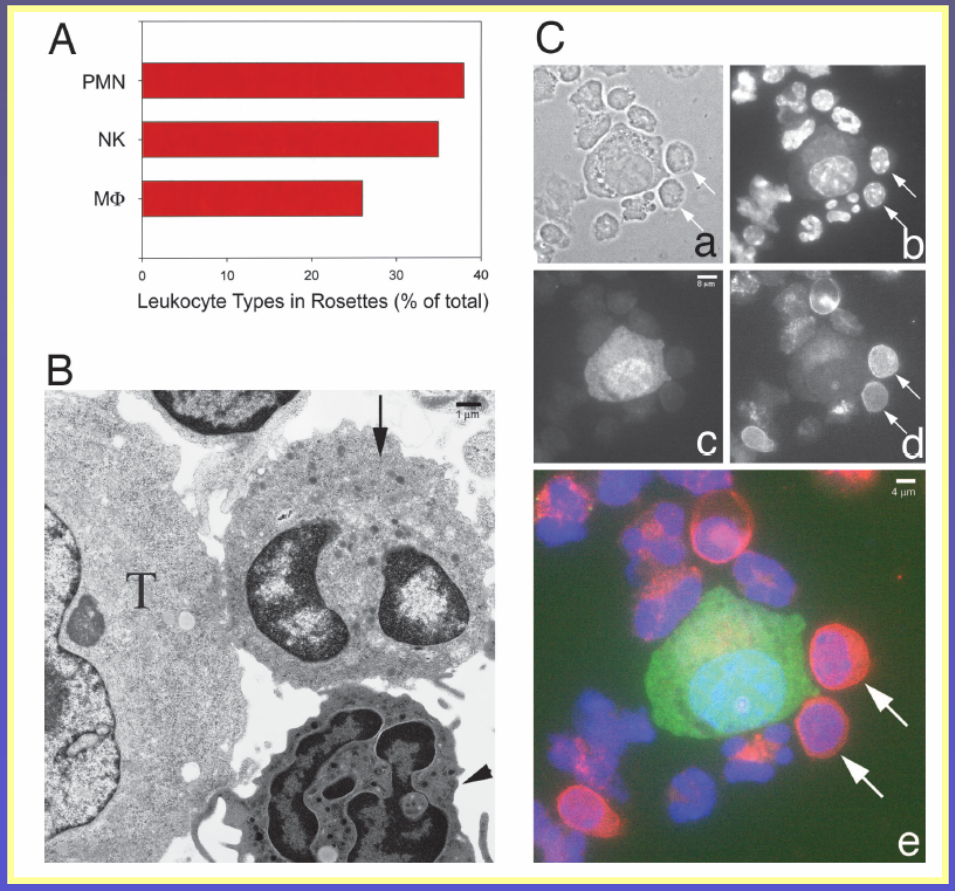
The Puzzle
One Observation, Two Explanations



- Complex initial boundary conditions lead to the observed outcomes (with periodic pattern)
- FoC M&W

Thanks* for Listening

Stan's #6585


A
PMN
NK
MΦ
0
10
20
30
40
Leukocyte Types in Rosettes (% of total)
B
T
1 µm
C
a
b
c
d
e
4 µm

LA
OF MEDICINE
UCDAVIS