“What is Data?”
1. Announcement:

Disabled Students Program looking to hire a note-taker for the class. Please contact them at 893-2668 or email: Thomas-W@sa.ucsb.edu
I. What is Data?

A. Some Formal Definitions:

factual information (as measurements or statistics) used as a basis for reasoning, discussion, or calculation.

**Data** refers to a collection of organised information, usually the result of experience, observation or experiment, other information within a computer system, or a set of premises. This may consist of numbers, words, or images, particularly as measurements or observations of a set of variables.
2. What is Data in High Energy Physics?

A. Karin Knorr Cetina (1999)
*Epistemic Cultures: How the Sciences Make Knowledge*

Chapter 3:
Actual object of investigation are too small, too fast, too dangerous to be contained or held.

Some occur w/in a billionth of a second, “they ‘exist’ in a way that is always, already past”

Established only indirectly:
Level 1 -- particles themselves
Level 2 -- representations of detectors (reconstructs event)
Level 3 -- representations of physics (construct variables)
2. What is Data in High Energy Physics?

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More important is disentangling events from other information:

1. Background-competing processes that fake the signal
2. underlying event-colliders produce other events
3. electronic “noise”- random, unpredictable signals
4. smearing of distributions- resolving power inadequate

Leads to a focus on the internal process more than the actual event data
3. Examples of Data: New York Charities

A. Background Context for Project

- Explain emergence of Bureaucracy, Science, Rationality
- Scale = Historical Change
- Emphasis organizations as unit of analysis

B. The New York City Charity Directories

- Created by NYC COS
- “Scientific Charity”
- Published from 1882, w/in decade, came to be annual
NEW YORK
Charities Directory

Aclassified and descriptive directory
to the
philanthropic, educational
and
religious resources
of the
city of New York
including the boroughs of
Manhattan The Bronx Brooklyn
Queens Richmond

Compiled by Mary Forbes, Librarian

Twelfth Edition

Published by the Charity Organization Society
of the city of New York
205 East 22d Street

Library

Charity Organization Society
of the
City of New York.
PREFACE.

This Directory is issued by the Charity Organization Society for the use of the societies, churches, and individuals working, either directly or by agents or representatives, among the poor of all the Boroughs of New York City, and also for those who are solicited to give to the charities of the City.

The contents have been carefully classified and arranged so as to show at a glance all the resources which the City affords for each phase of distress or need. The very great labor of compiling this Directory will be best appreciated by those who have attempted similar work, and they will be most lenient towards any errors or omissions which they may find.

We thank the numerous persons from whom we have received information for their courtesy in answering our inquiries—
THE NEW YORK JUVENILE ASYLUM,  
176th Street and Amsterdam Avenue.

An institution for the care of neglected children and their training in industry, morality, and common school studies. Incorporated in 1851, and has since cared for more than thirty-six thousand children. Maintains a House of Reception and an Indenturing Agency (645 W. 61st Street, Chicago, Ill.). Receives support from City for those children only who are public charges, but looks to benevolent persons for the enlargement and endowment of its work. Is the largest Protestant charity of its kind in the State.

OFFICERS.
THE BABIES' HOSPITAL
OF THE CITY OF NEW YORK.
Lexington Ave. and 55th St. (under construction),
Temporary Quarters, No. 127 East 50th Street.
Incorporated 1887.
For poor sick children under 3 years of age.

OFFICERS.
O. G. JENNINGS, Pres.
Mrs. JOHN B. CALVERT, Treas.
FELIX M. WARBURG, Treas. Building Fund.
B. OGDEN CHISOLM, Sec'y.

WOMEN MANAGERS.
Mrs. JOHN JAY KNOX, President.
MRS. O. G. JENNINGS, 2d Vice-Pres.
MRS. JOHN B. CALVERT, Treas.
MRS. CHARLES H. HARTMAN, 1st Vice-Pres.
MRS. WILLIAM MOIR, 3d Vice-Pres.
MRS. E. K. BEDDALL, Cor. Sec'y.
MRS. THORON G. STRONG, Rec. Sec'y.

The Babies' Hospital is non-sectarian. It receives poor sick children, if they have no contagious disease and are under three years of age. Mothers are not received. During the thirteen years ending Oct. 1, 1901, it
DIVISION 2.—Food and Clothing.

(See also Churches and Congregations.)

AMERICAN FEMALE GUARDIAN SOCIETY
(1849), 29 East 29th St. Visits and gives relief in sickness, furnishing nurses, and obtaining admissions to hospitals when desirable. Finds employment and transportation, and has an employment bureau to furnish women with sewing to do in their own homes. In its Home for the Friendless, it receives homeless children, girls from 3 to 14, boys from 3 to 10, and cares for them until they can be placed in Christian families. Many are legally committed or surrendered to the Society until of age. Maintains a home school at the above address, and 12 industrial schools in various parts of the city, in which children are retained until admissible to the grammar department of the public schools. (See Industrial Aid, page 39.) Also has a Summer Home (Wright Memorial) at Oceanport, N. J., where the children are cared for through the heated term. Apply at the Home at any hour of the day. (For Schools, see page 52.)

AMERICAN SEAMEN'S FRIEND SOCIETY
Clothes and cares for shipwrecked American seamen.
(See page 51.)
SHELTERING ARMS (1864), Tenth Ave. and 129th St. For the care of homeless and destitute children, for whom no other institution provides—such as 1st. the blind and deaf and dumb, etc., until they are old enough to enter other institutions; 2d. CRIPPLED CHILDREN, incurable; 3d, children who are deserted, or temporarily homeless; 4th, children received for temporary board where parents are able to pay. Apply at the institution at any time.
DIV. 4.

Miscellaneous Reliefs.

CHARTY FUND OF THE CHAMBER OF COMMERCE (1883), 36 Nassau St. Consists of $57,000 contributed by Mr. John C. Green, the income of which is to be applied to the relief of distressed merchants who shall have been members of the Chamber, in good repute in the city of New York, and whose misfortunes were not the result of, or attended by, any dishonorable transactions on their part. Apply to the Trustees of the Fund, through the Secretary of the Chamber of Commerce.
NEW YORK JUVENILE ASYLUM (1851), 176th St. and 10th Ave. Office and House of Reception, 61 West 13th St. Is a reformatory for truant and disobedient children of both sexes, residents of the city, between the ages of 7 and 14 years, committed by a magistrate or surrendered by parents or guardians. It also provides homes in the country for friendless or surrendered children. Accommodates 800 at Asylum and 100 at House of Reception. Apply at the House of Reception at any hour of the day.
681 New York Juvenile Asylum
176th Street and 10th Avenue
1851
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Truant children of both sexes residents of the city committed by Magistrate 7 ≤ AGE ≤ 14

Disobedient children of both sexes residents of the city surrendered by parents or guardians 7 ≤ AGE ≤ 14

Friendless children surrendered children
ABLEBODY = 0 ; ABLEBODY = 'ABLE-BODIED'
ABLE_PAY = 0 ; ABLE_PAY = 'ABLE TO PAY'
ADDICT = 0 ; ADDICT = 'DRUG ADDICTS'
AGED = 0 ; AGED = 'AGED/OLD/ELDERLY-EXACT'
AGE_ADLT = 0 ; AGE_ADLT = 'ADULT/GROWN-UP-EXACT'
AGE_FERT = 0 ; AGE_FERT = 'CHILD-BEARING AGE-EXACT'
AGE_GENL = 0 ; AGE_GENL = 'REFERENCE TO GENERALIZED AGE'
AGE_MIDD = 0 ; AGE_MIDD = 'ABOVE CHILD-BEARING AGE-EXACT'
AGE_SCHL = 0 ; AGE_SCHL = 'SCHOOL AGE'
APPLICNT = 0 ; APPLICNT = 'APPLY/APPLICANT-EXACT'
AT_RISK = 0 ; AT_RISK = 'AT MORAL RISK'
A_ACUTE = 0 ; A_ACUTE = 'ACUTE-EXACT'
BEGGARS = 0 ; BEGGARS = 'BEG/BEGGAR/MENDICANT-EXACT'
BLACKS = 0 ; BLACKS = 'BLACKS'
BLIND = 0 ; BLIND = 'BLIND'
CALAMITY = 0 ; CALAMITY = 'VICTIM OF CALAMITIES-SHIPWRECK,WAR,ETC'
CANTSSLF = 0 ; CANTSSLF = 'CANT SUPPORT SELF'
CERTIFCN = 0 ; CERTIFCN = 'PROPERLY CERTIFIED'
CHARNBAD = 0 ; CHARNBAD = 'NOT BAD CHARACTER'
CHILDREN = 0 ; CHILDREN = 'CHILDREN/CHILD(WAIF/STRAY)-EXACT'
CHRISTIN = 0 ; CHRISTIN = 'CHRISTIANS-EXACT'
CONSUMPV = 0 ; CONSUMPV = 'CONSUMPTIVE'
CONVALCS = 0 ; CONVALCS = 'CONVALESCENT'
CONVICT = 0 ; CONVICT = 'CONVICT'
COUPLE = 0 ; COUPLE = 'MARRIED COUPLE-EXACT'
CRIMCHGD = 0 ; CRIMCHGD = 'CHARGED W/ A CRIME'
CRIMFIRS = 0 ; CRIMFIRS = 'FIRST OFFENSE'
CRIMINAL = 0 ; CRIMINAL = 'CRIMINAL'
CRIMINOR = 0 ; CRIMINOR = 'MINOR CRIMINAL'
Crippled = 0 ; Crippled = 'Cripples/crippled-exact'
CURABLE = 0 ; CURABLE = 'CURABLE-EXACT'
DEAD = 0 ; DEAD = 'DEAD'
IF ARID\{K,N\}='ABLE' THEN DO ; IF
ARID \{K,N+1\}='AND' THEN DO ; IF
ARID \{K,N+2\}='WILLING' THEN DO ; IF
ARID \{K,N+3\}='TO' THEN DO ; IF
ARID \{K,N+4\}='LABOR' THEN DO ; WANTWORK =1 ; ABLEBODY =1 ; M=1 ; N=N+4 ; END;END;END;END;END; IF M=1 THEN GOTO E ;

IF ARID\{K,N\}='ABLE' THEN DO ; IF
ARID \{K,N+1\}='AND' THEN DO ; IF
ARID \{K,N+2\}='WILLING' THEN DO ; IF
ARID \{K,N+3\}='TO' THEN DO ; IF
ARID \{K,N+4\}='WORK' THEN DO ; WANTWORK =1 ; ABLEBODY =1 ; M=1 ; N=N+4 ; END;END;END;END;END; IF M=1 THEN GOTO E ;

IF ARID\{K,N\}='ARE' THEN DO ; IF
ARID \{K,N+1\}='ABLE' THEN DO ; IF
ARID \{K,N+2\}='TO' THEN DO ; IF
ARID \{K,N+3\}='DO' THEN DO ; IF
ARID \{K,N+4\}='WORK' THEN DO ; ABLEBODY =1 ; M=1 ; N=N+4 ; END;END;END;END;END; IF M=1 THEN GOTO E ;
IF ARID\{K,N\}='ARE'
THEN DO ; IF
ARID \{K,N+1\}='ABLE'
THEN DO ; IF
ARID \{K,N+2\}='TO'
THEN DO ; IF
ARID \{K,N+3\}='SAW'
THEN DO ; ABLEBODY=1 ;
M=1 ; N=N+3 ;
END;END;END;END; IF M=1 THEN GOTO E ;

IF ARID\{K,N\}='ARE'
THEN DO ; IF
ARID \{K,N+1\}='ABLE'
THEN DO ; IF
ARID \{K,N+2\}='TO'
THEN DO ; IF
ARID \{K,N+3\}='SPLIT'
THEN DO ; ABLEBODY=1 ;
M=1 ; N=N+3 ;
END;END;END;END; IF M=1 THEN GOTO E ;

IF ARID\{K,N\}='ARE'
THEN DO ; IF
ARID \{K,N+1\}='ABLE'
THEN DO ; IF
ARID \{K,N+2\}='TO'
THEN DO ; IF
ARID \{K,N+3\}='STOW'
THEN DO ; ABLEBODY=1 ;
M=1 ; N=N+3 ;
END;END;END;END; IF M=1 THEN GOTO E ;

IF ARID\{K,N\}='ABLE-BODIED'
THEN DO;ABLEBODY=1;M=1;END;IF M=1
THEN GOTO E ;
4. Examples of Data: UC Diversity

A. Background Context for Project

- UC adjusts


- Created by UCOP
- Response to SP-1
- 9 campuses + National Labs
4. Examples of Data: UC Diversity

# UCLA
#> SCIENCE MATHEMATICS & RESEARCH TRAINING FOR STUDENTS
( SMARTS )
#> LINDA ROBERTSON ( 310 ) 206 - 6493
#> ACADEMIC PREPARATION AND ENRICHMENT
#T SMARTS IS A SIX - WEEK SUMMER ENRICHMENT PROGRAM
#S2 FOR AFRICAN - AMERICAN, AMERICAN INDIAN AND LATINO
STUDENTS IN GRADES 9 - 11 AND THEIR PARENTS
#T THE SATURDAY ACADEMY, OFFERED DURING THE ACADEMIC
YEAR, ALLOWS FOR CLOSE FOLLOW UP AND IS HELD FOR EIGHT
SATURDAYS IN THE FALL AND WINTER SEMESTERS.
#P THE PROGRAM PROVIDES INTENSIVE PREPARATION IN
GEOMETRY, ALGEBRA, TRIGONOMETRY, AND PHYSICS AND
ENCOURAGES STUDENTS' EARLY INTEREST IN SCIENCE AND
TECHNOLOGY
#T THROUGH HANDS - ON PROJECTS CARRIED OUT IN A RESEARCH
LABORATORY. ACTIVITIES ALSO INCLUDE INDUSTRY GUEST
SPEAKERS, COMPANY FIELD TRIPS AND COLLEGE AND CAREER
PLANNING WORKSHOPS. PARENT INVOLVEMENT IS AN INTEGRAL
COMPONENT OF SMARTS AND ENSURES STUDENTS' LONG - TERM
COMMITMENT TO ACADEMIC EXCELLENCE.
4. Examples of Data: UC Diversity

UCSB

-> UPWARD BOUND
-> EOP / SAA CENTRAL ADMINISTRATION
-> JOANNE MADISON (805) 893 - 3514
-> OUTREACH AND RECRUITMENT
-> ACADEMIC PREPARATION AND ENRICHMENT

UPWARD BOARD IS A FEDERALLY FUNDED PROGRAM SERVICING APPROXIMATELY 60 FIRST GENERATION AND / OR LOW INCOME FAMILIES.

THE PROGRAM INCLUDES TUTORING , SATURDAY COLLEGE AT UCSB , VISITS TO COLLEGES , AND A SIX - WEEK SUMMER RESIDENTIAL PROGRAM EMPHASIZING ACADEMICS , CAREER AND ACADEMIC ADVISING , AND CULTURAL / RECREATIONAL ACTIVITIES. THE ACADEMIC ADVISING AND PLANNING PROCESS OCCURS THROUGHOUT THE YEAR.
4. Examples of Data: UC Diversity

IF ARID{N}='WHO'
ARID {N+1}='HAVE'
ARID {N+2}='DEMONSTRATED'
ARID {N+3}='COLLEGE'
ARID {N+4}='POTENTIAL'
THEN DO ; IF
THEN DO ; IF
THEN DO ; IF
THEN DO ; IF
THEN DO ;
COLGPREP =1 ;
M=1 ; N=N+4 ;
END;END;END;END;END;
IF M=1 THEN GOTO E ;

IF ARID{N}='AT'
ARID {N+1}='RISK'
ARID {N+2}='OF'
ARID {N+3}='DROPPING'
ARID {N+4}='OUT'
THEN DO ; IF
THEN DO ; IF
THEN DO ; IF
THEN DO ; IF
THEN DO ;
DROPOUT =1 ;
M=1 ; N=N+4 ;
END;END;END;END;END;
IF M=1 THEN GOTO E ;
**RACE**: African Americans, American Indians, Asian and Pacific Americans, Asians, Blacks, Central Americans, Chicanos, different cultures, diverse ethnic and racial backgrounds, diversity, EOP, ethnic minorities, ethnically diverse, Hispanic, historically underrepresented, Latinos, Mexican Americans, minority, multicultural, multi-ethnic, Native Americans, people of color, Rincon Indian, underrepresented backgrounds.

**POVERTY**: disadvantaged, economically disadvantaged, homeless, low income, lower socioeconomic, needy, poor, poverty, underprivileged, working poor.

**DRUGS/GANGS/CRIME**: crime, criminals, drug and alcohol abuse, drug users, gangs, incarcerated youth, juvenile delinquents, substance abuse, violence prevention.

**URBAN**: barrio, ghetto, inner city, urban.

**LANGUAGE SKILLS**: bilingual, English as a second language, ESL, immigrants, language barriers, language minority, LEP, limited English proficiency, limited English speaking, limited English, linguistically diverse, multilingual, native Spanish speaking, Non-English background, primary language is not English, recent immigrants, recently arrived, refugees, second language acquisition, second language.

**INTELLECTUAL SKILLS**: children's literacy, computer literacy, developmental reading, ecological literacy, literacy development, literacy project, literacy skills, literacy, models of literacy, reading and writing, reading comprehension, reading program, scientific literacy, writing and literacy, writing and literature.
4. Debrief re: Exercise #1