



Mathematics/ Statistics
in
Higher Education

Chris Feil- Apple Computer Australia P/L



Agenda

- Introduction
- University of Melbourne case study
- Dr. Neville Smythe-ANU
- Idea Pooling



Introduction

- Agenda
- Product Guide demo
- <http://macsoftware.apple.com/auindex.html>
- Graphing Calculator



University of Melbourne Case Study

- <http://www.ms.unimelb.edu.au/>
- Wheels story/ parallel computing application
- <http://auc.uow.edu.au/wheels/Wheelsjuly99/>
- Mac installation and how it is used



Wheels story/ parallel computing application

- Poor man's supercomputer
- Used for Polymer research
- LOBOS
- Linux based
- Student use during day
- VPC too
- iMac based (54 now, plans for 82)
- Faster than DEC Alpha cluster
- Tony Guttman (tonyg@ms.unimelb.edu.au)



Mac installation and how it is used

- Staff lectures
- Student homework
- Student timetables
- Programming in Pascal, Java script, Linux
- Statistical modelling
- For Software and Hardware, refer
- <http://www.ms.unimelb.edu.au/~ahlabman/resources.htm>



Mac installation and how it is used ...cont

- **WORM online tutor and simulator**
- Eg. <http://www.tutor.ms.unimelb.edu.au/matrix/matrices.html>



Dr. Neville Smythe-ANU



Overview of Maths/Stats apps on Mac

- <http://guide.apple.com>
- 193 higher-ed math/stats apps(+)
- 4 basic categories:
 - Particular subject focus
 - Engineering-CAD/CAM-Data
 - General (symbolic) systems
 - Mathematical typesetting



Statistics

- StatView
- Statistica
- SPSS
- JMP
- Data Desk
- \sim (S+, GenStat)



Two specialist apps

ANUGraph

ANUChaos



General Mathematical systems

MATLAB

Derive

Maple

Mathematica



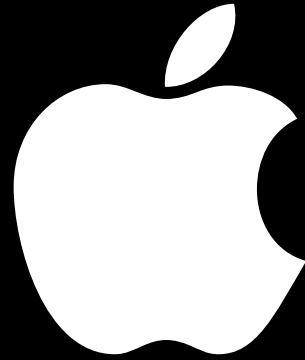
Mathematical Typesetting

- EqnEditor, MathType,
- Expressionist
- $\text{T}_{\text{E}}\text{X}$
 - Scientific Word
 - OzTEX
 - TEXTURES



Idea Pooling





Think different. TM

