SAS Visual Analytics Collaboratory at Deakin University

Welcome to the VA web site - enjoy the visuals!



by Jacob Cybulski Assoc. Prof. in Info and Bus Analytics Director of SAS Visual Analytics Collaboratory About Jacob Teaching in physical space Teaching in virtual space Teaching in collaborative space Teaching in casual space Reflection

Immersion, creativity and teamwork: The three factors of collateral learning

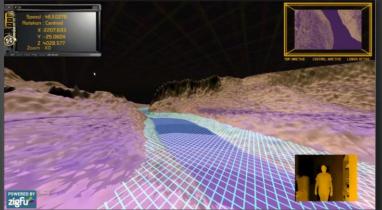
About Jacob

Competitive

- Jacob started as a graduate of Informatics, then moved into Computer Science, Software Engineering and Information Systems. His current work involves Business Analytics and Information Visualisation.
- In his free time he is involved in competitive foil fencing, fine arts and some extreme science!

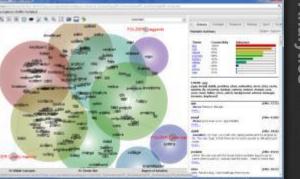






Business Analytics

nteractive A



Teaching in Physical Space Immersion - The sharp end of IS





- Jacob is always looking for new ways to reinvigorate his classroom teaching.
 - For example he has been very successful incorporating elements of his favourite sport of fencing as a vehicle for team building in Project Management classes and for teaching Business / IT Alignment.



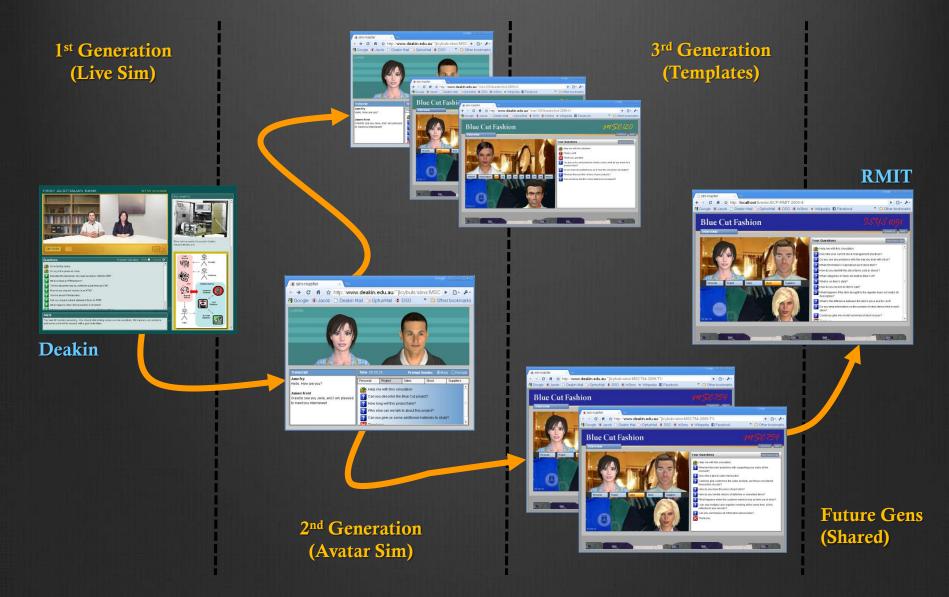
Teaching in Virtual Space Immersion – Professional Skills



actions planned.

Teaching in Virtual Space

Dissemination of Business Analysis eSims

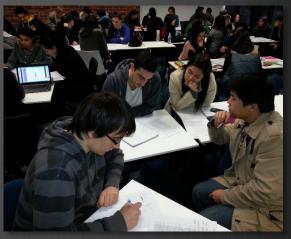


Business Requirements Analysis

Workshops model -Success and fun

- All class activities are assessable
- **Solution** No exams and no assignments
- Do all work in teams –learn from peers not teachers
- Work in teams even when assessed individually
- Team work is privilege not an obligation
- Encourage reliance on own knowledge, research skills and ingenuity
- Have simple rules of engagement
- Make compliance an option not law
- Learning = side-effect of enjoyable activity (collateral learning)
- Make readings and preparation optional but make them work
- Cut down lecture time students learn more by doing than by listening
- Encourage students to explore, discover, take risks and improve
- Emphasise problem-solving rather than facts, combine structure with creativity
- Mix methods = games, simulations, cases, visual and communicative actions
- Recognise creativity and reward insight







- Make attendance optional but ensure that absence leads to lost marks
- Encourage taking on different team roles, i.e.
 leaders, facilitators, reviewers
- ***** Make standard achievable and excellence a habit
- **Teach as a team to give examples of team work**
- Encourage independence but provide ample guidance when requested
- Provide challenges to go ahead of the pack

Above all make it fun!

More on BRA

Sample projects

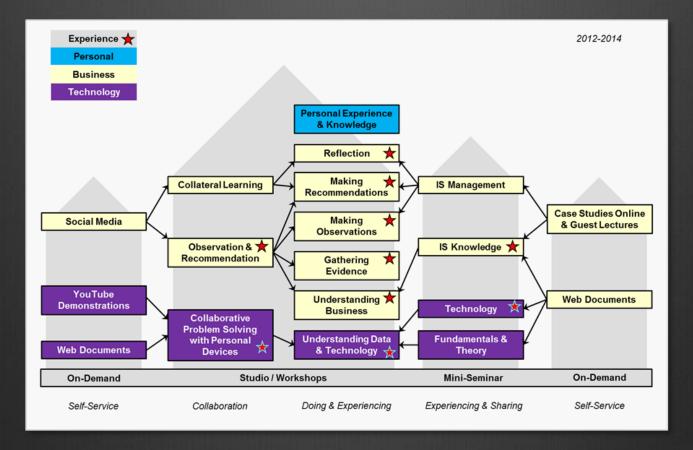
- Analyse interests of various stakeholders in the hypothetical invention of turning a combination of blue gum woodchips, water and oxygen into petrol.
- Look for a possible solution to the reduction of noise pollution associated with late-night truck deliveries to large supermarkets.
- Suggest new uses for the "SAS Wall"



In students' words

- I love this format
- \circledast Yes, gets me to class
- Interactive group learning is an excellent progression for teaching
- Working and communicating in groups helps strengthen each student's knowledge
- I love how this unit is assessed weekly as opposed to small assignments and one big exam at the end of semester
- Love peer learning
- Low stress
- Assessment based on actual learning not exam
- Due to the casual nature of class, it's a great working environment
- Staff are great
- ✤ You doing me proud
- Give us more chocolates
 [re: workshop with sweet treats]

Personal strategies in curriculum design for BI Period 2012-2014



Curriculum design (with experience) motivated by needs of staff & students. It illustrates a shift to the use of online media on-demand, reliance on personal BYO devices, workshop/studio style of learning and de-emphasised role of lectures.

Teaching Business Analytics

Creativity - Data, Sense, Action

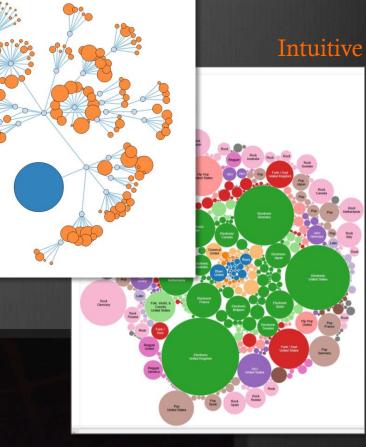
Interactive

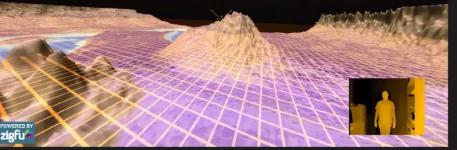
Actionab 1.379 1.20% 0.955 1.23% 5.17% 4.92% ectronic 1.37% unk/Sou 0.87% 0.95% 0.89% 0.36% 0.28% Alternative 4.14% 2.99% 0.119 4 50% 5.26% Stacked Column Chart equency Percent 926 21 PRODUCT CATEGORY 15% OUCHER_DESCRITPION Frequency Percent Frequency Brother Voucher Eather Vou



Geolocated

Informat



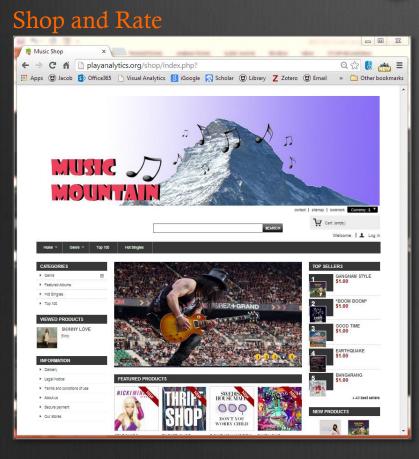


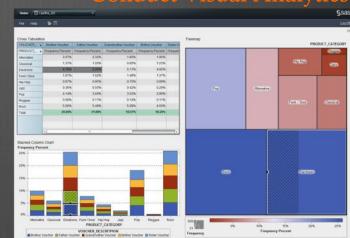
Artist similarity by genre and style

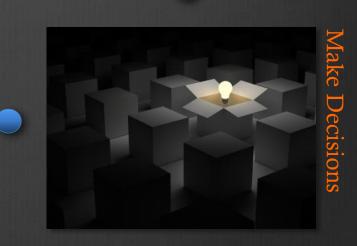
Immersive & Engaging

Teaching Business Analytics - Process

Business Simulation Visual Analytics Business Decisions

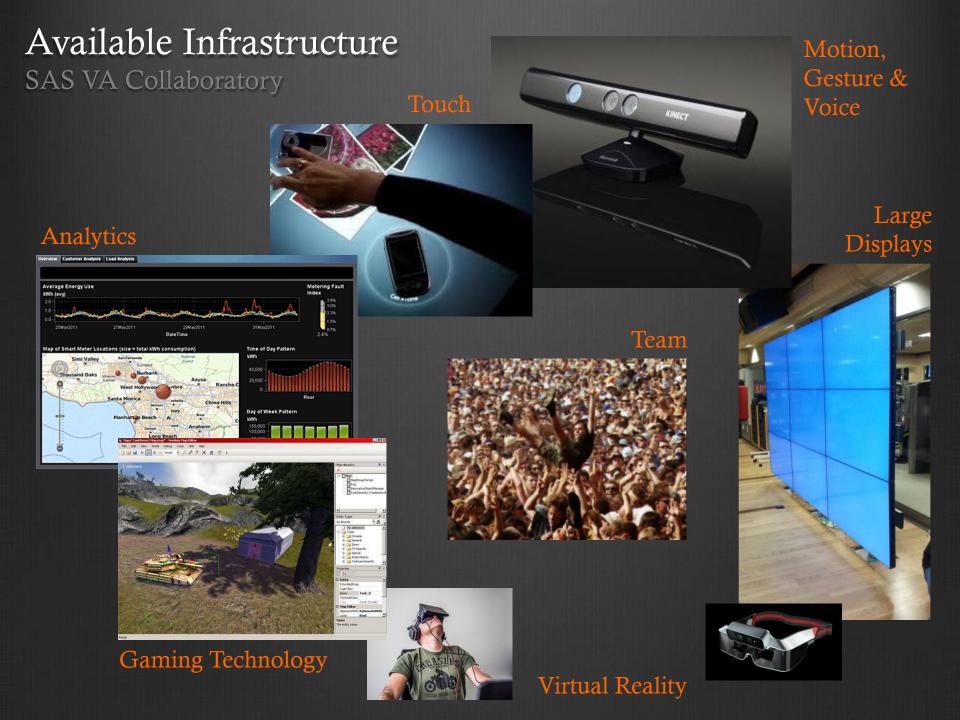






Conduct Visual Analytics

Preedigitalphotos.net by Master isolated images



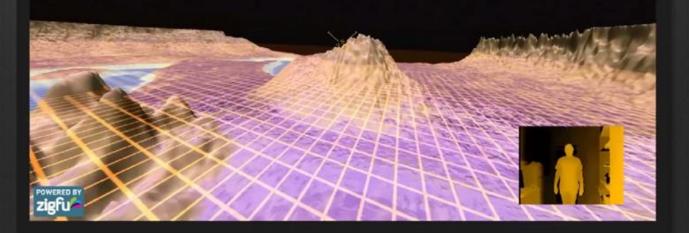
Passer-By Analytics Learning by Casual Users and Public



Fully immersive game with motion tracking for collateral learning of Business Analytics concepts by passing-by business students (with the use of a specially constructed large screen located in the building foyer)



P INFOTIVE DENTIFIEL FOTIVE LOWER FOTIVE



Summary **Collateral Learning** Learning as a unintended side effect Learning which is active Learning which is enjoyable Learning everywhere Learning with friends Learning without stress Learning without compulsion