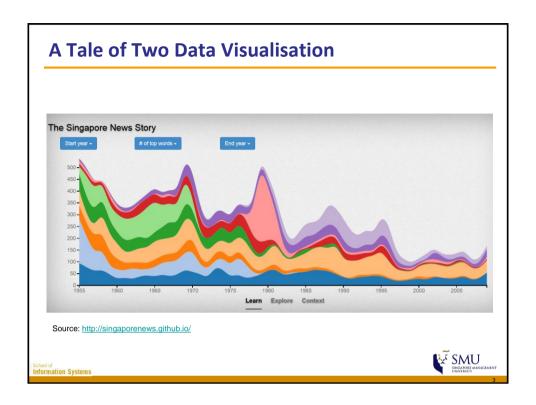
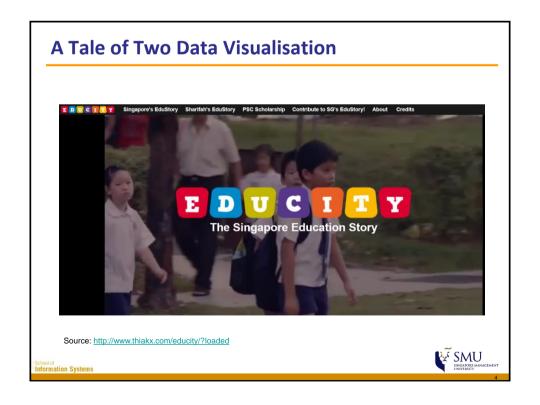


Content

- Visual Analytics design issues
- The information visualisation reference model
- The user-centered design approaches

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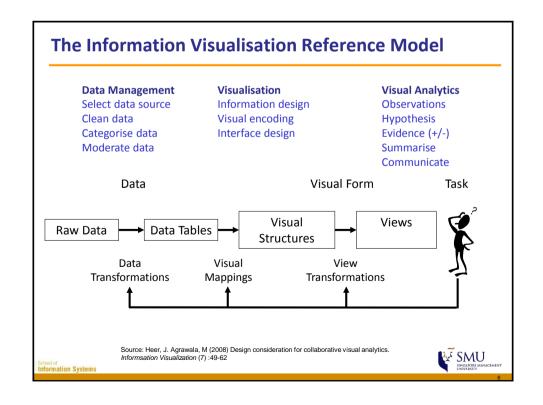
Why Visual Analytics (VA) Design?

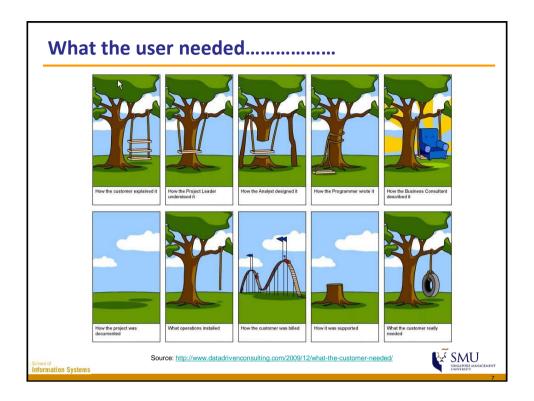
- Good design process is the key to Visual Analytics applications success
- Good design process will make your VA systems costeffective.
- Knowing what you want to get out of VA applications is fundamental to the design process

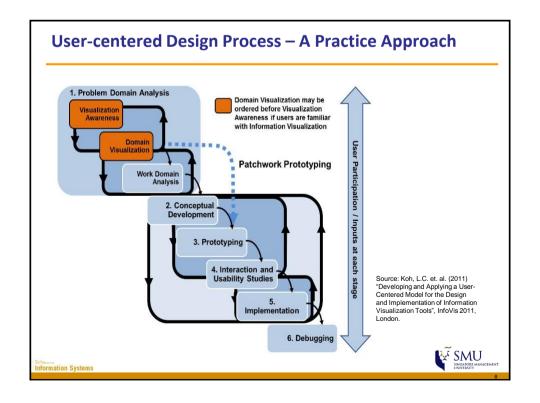


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Exploratory Analytics Audiences

- Provides every analytical display, interaction, and function that might be needed by those who use it for their analytical tasks.
- Grounds the entire analytical experience in a single, central workspace, with all displays, interactions, and functions within easy reach from there.
- Supports efficient, seamless transitions from one step to the next of the analytical process, even though the sequence and nature of those steps cannot be anticipated.
- Doesn't require a lot of fiddling with things to whip them into shape to support your analytical needs.

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Customisable Analytics Audiences

- Provides the means to develop an application that supports
 precisely what's needed in the most effective way possible. This
 requires a high degree of programmability, both in terms of
 power and flexibility.
- Provides ready-made libraries of useful functions that can be easily plugged into the application with much less effort than it would take to build them from scratch.
- Easy and efficient to use by those who develop the applications.
- Provides the means to remove everything from view in the finished application that isn't needed.

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Establishing intent

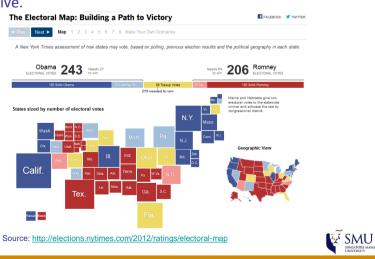
- When the function is to explain
- When the function is to explore
- When the function is to exhibit data

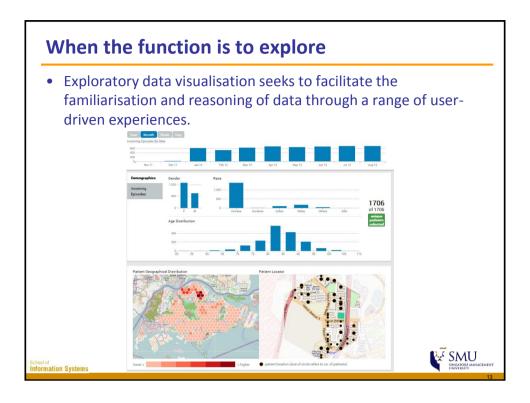


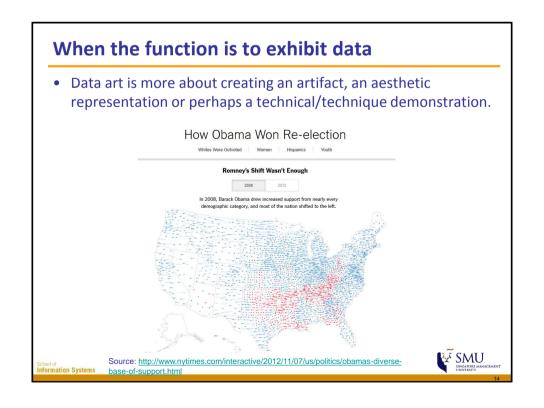


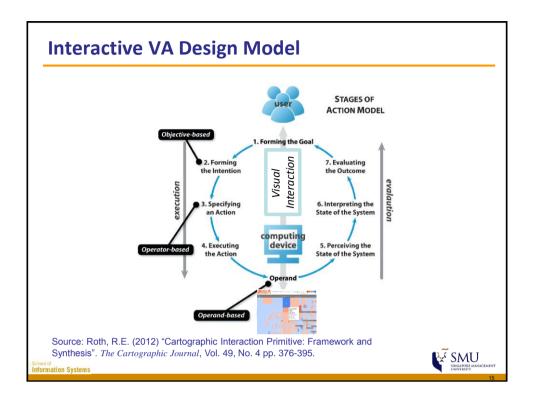
When the function is to explain

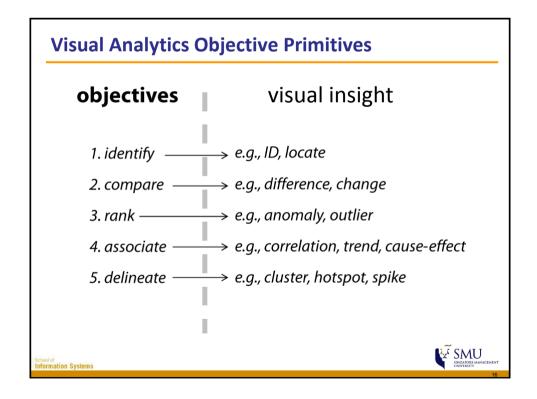
 Explanatory data visualisation is about conveying information to a reader in a way that is based around a specific and focused narrative.











Interactive Analytics Operator Primitives

operators

1. reexpress 7. pan

2. arrange 8. zoom

3. sequence 9. filter

4. resymbolize 10. search

5. overlay 11. retrieve

6. reproject 12. calculate



Visual Analytics Design

• The syntactic of interaction primitives

