



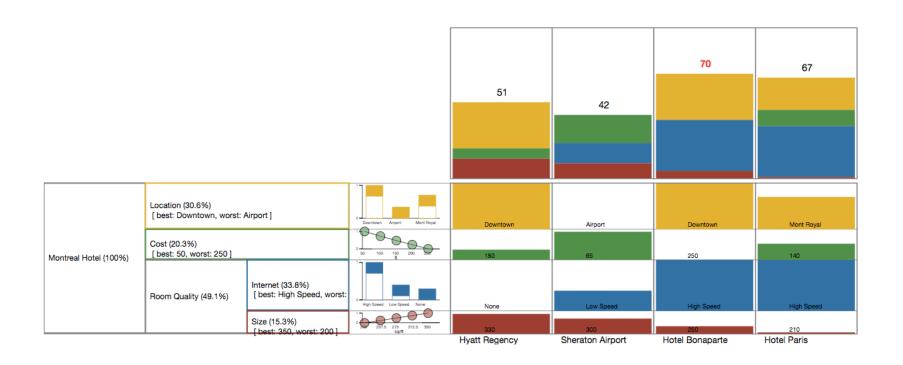
Web ValueCharts: Supporting Decision Makers with Interactive, Web-Based Visualizations

Aaron Mishkin

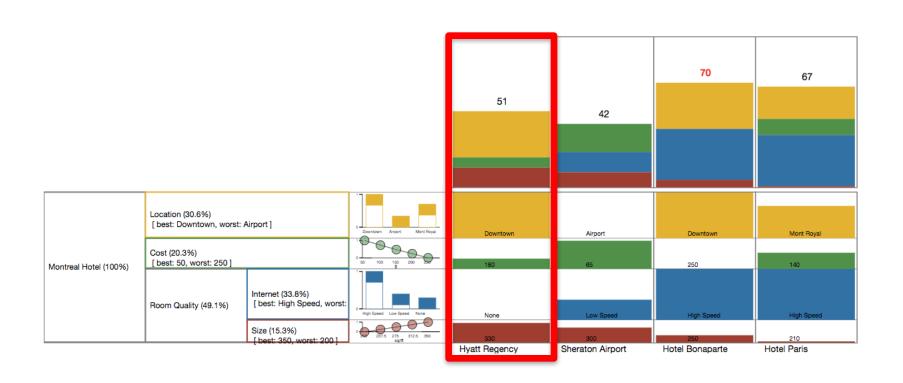
Program: BSc in Computer Science

Supervisors: David Poole and Giuseppe Carenini

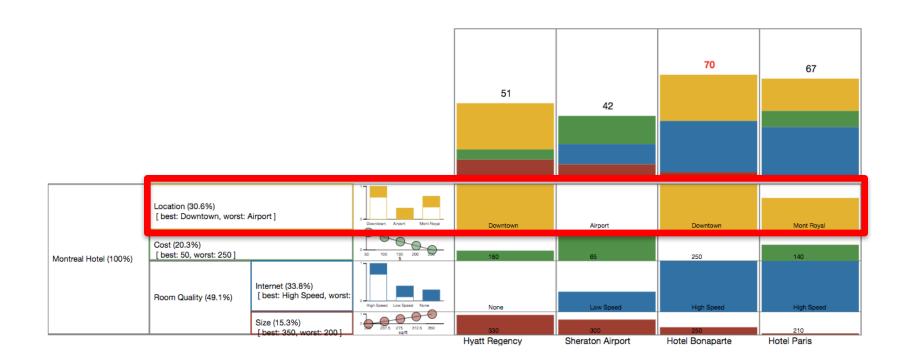
Example: Choosing a Hotel



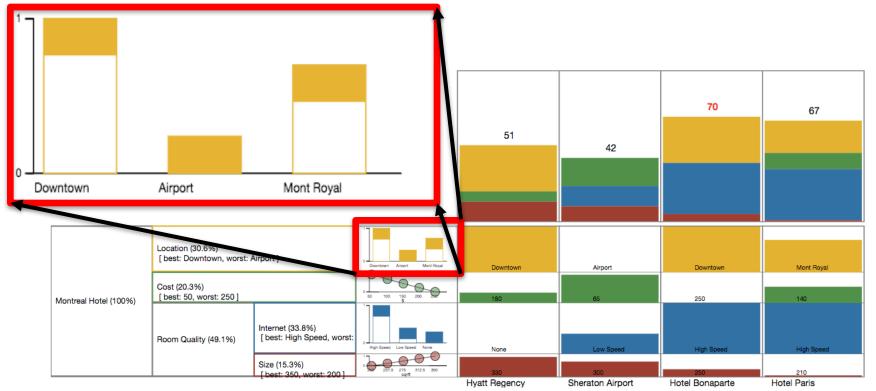
Hotel Alternatives



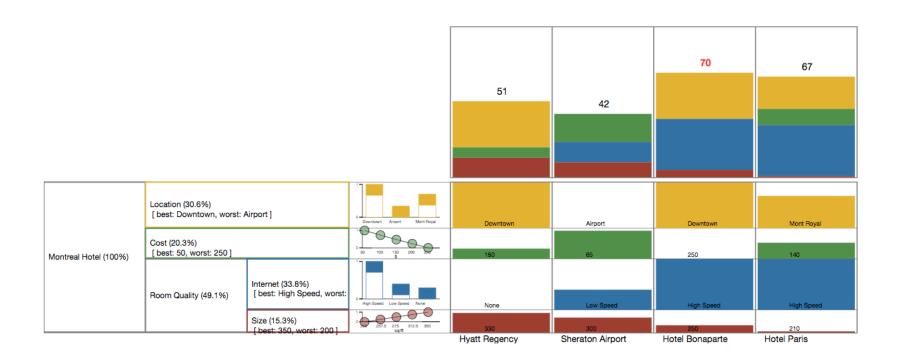
Hotel Criteria



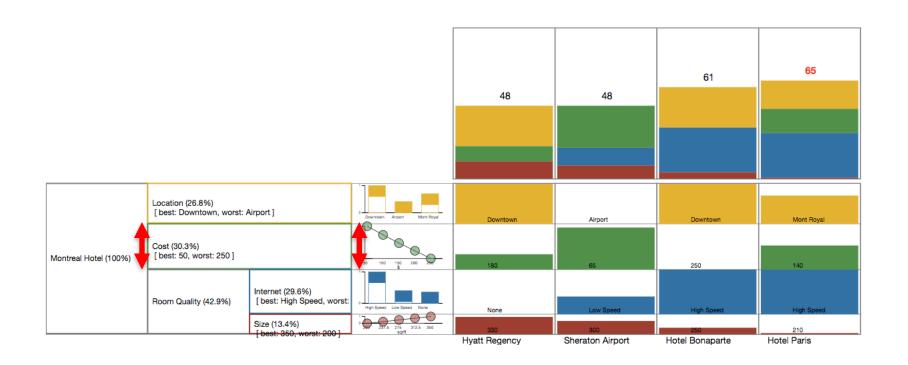
Score Functions for Criteria



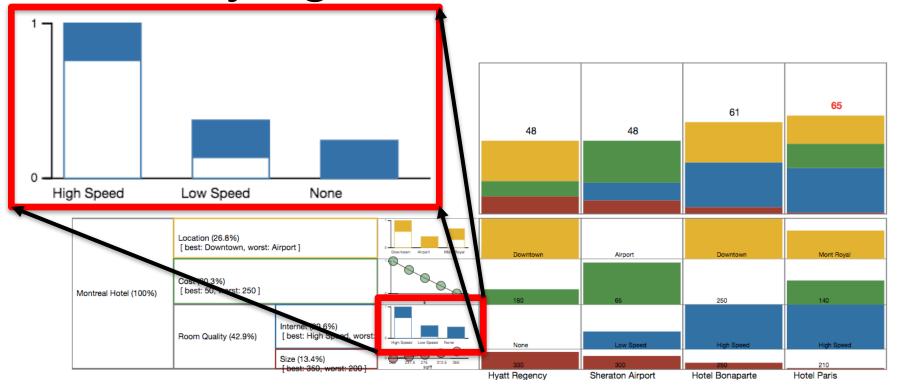
Re-weighting the "Cost" Criteria



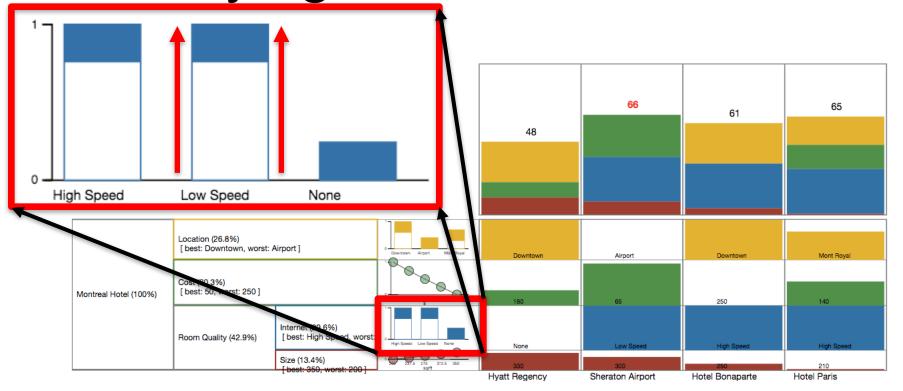
Re-weighting the "Cost" Criteria



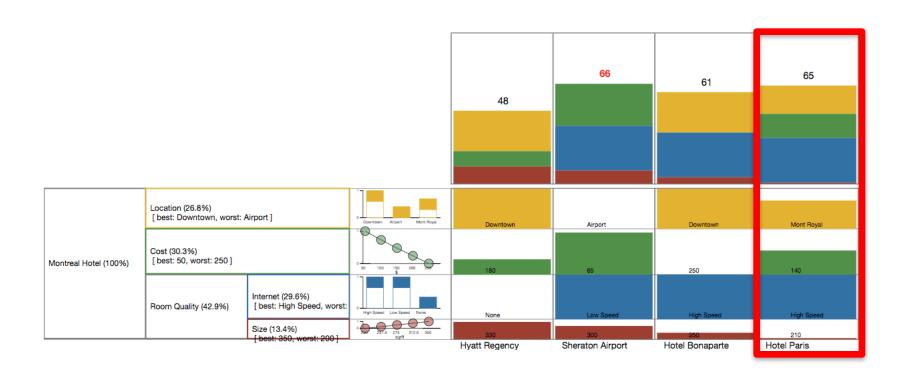
Modifying Scores for "Internet"



Modifying Scores for "Internet"



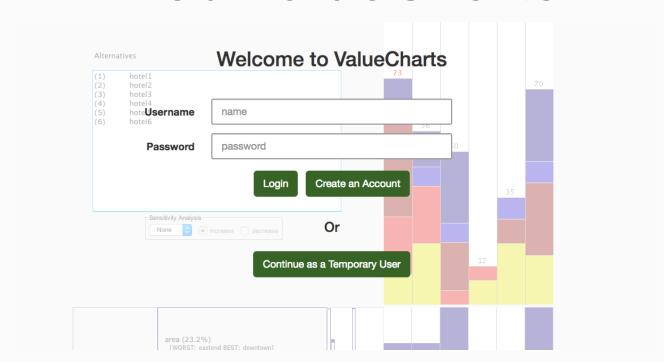
Choosing Hotel Paris



Efficacy and Adoption

- □ A comprehensive evaluation in 2008 found ValueCharts to be very effective at supporting decision tasks¹.
- □ Convincing decision makers to adopt ValueCharts requires a platform for creating, using, and sharing them.

Web ValueCharts



Summary

- □ ValueCharts are powerful tools for supporting multi-attribute decisions.
- □Web ValueCharts is an open-source web application for creating and sharing ValueCharts.
- □Industrial and scientific pilot projects are occurring in the near future.

Acknowledgements

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References

 J. Bautista, Carenini G., An Integrated TaskBased Framework for the Design and Evaluation of Visualizations to Support Preferential Choice. In Proceedings of Advanced Visual Interfaces (AVI 2006)- Venice, Italy, May 25-28, 2006