

Visual Analysis of Fluid Dynamics  
at  
NASA's Numerical Aerodynamic Simulation  
Facility

Val Watson  
NASA Ames Research Center

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Purposes

- To describe and illustrate visualization tools used today in computational fluid dynamics (CFD)
- To indicate how these tools are likely to change by showing a projected revolution of the human-computer interface

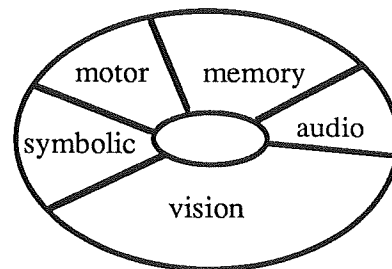
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Outline

- The revolution in human-computer environments
- Current environments for CFD research
- Comparison of current environments with ideal
- Predictions for the future CFD environments
- What can we do to accelerate the improvements

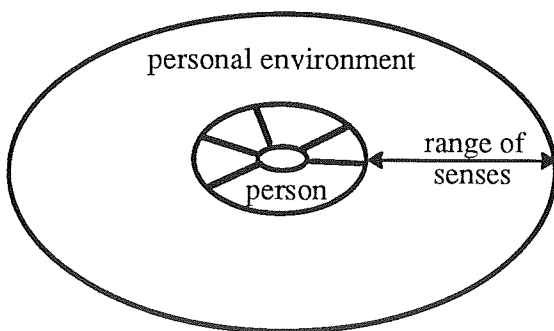
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Human Processing Capabilities



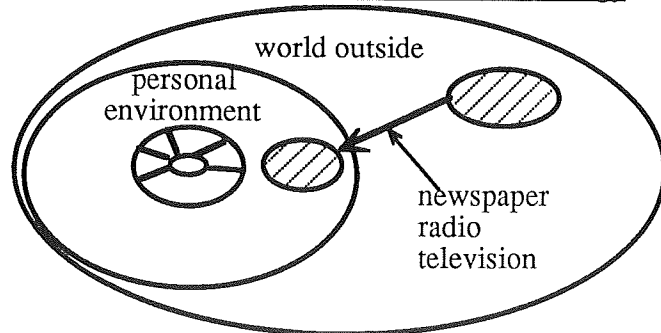
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Limits of the Personal Environment



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Extension of Environment with Technology



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## **Comments**

Although current visualization tools have greatly improved our ability for CFD research, it is important to recognize that these tools are still changing rapidly. When acquiring visualization tools, these potential changes must be considered.

## **Notes**