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# Rail Interiors Expo 2007

## Accessibility Regulations – Understanding the Needs Behind the Requirements

Mike Evans, Principal Engineer  
November 2007

# Types of Needs

- Engineering/laws of physics (we understand) e.g.
  - Brakes
  - Crashworthy interiors
  - Defined/fixed baseline criteria/variables
- Human (varied/difficult to understand)
  - 5% ile female to 95% ile male
  - Multitude of different disabilities
  - Multitude of personal preferences
  - Thousands of variables

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# Training to learn the needs of disabled people

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**What do you want to do when you  
are 70?**

# Course Content

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- Models of disability
- Legislation
- Understanding why
- Recognising disability
- Terminology and behaviour
- Practical exercise
- Who needs what and why
- Use of colour and tonal contrast
- Practical exercise
- Design considerations
- Conflicts
- The future

# Models of Disability

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- Religious
- Medical
- Social
- Independence
- **MUTUAL**

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# Visually Impaired People











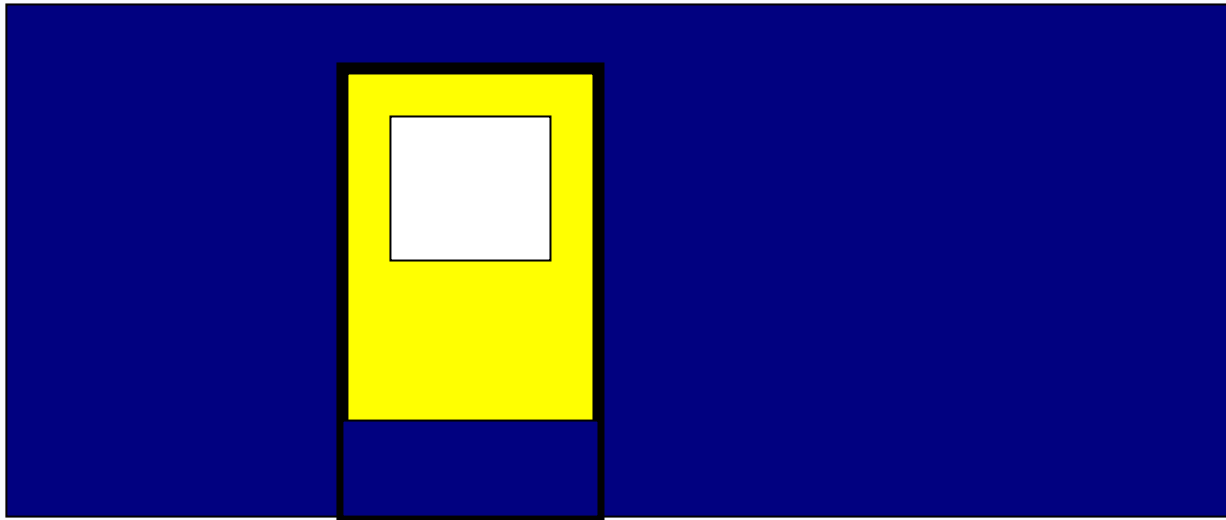
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# Colour and Contrast



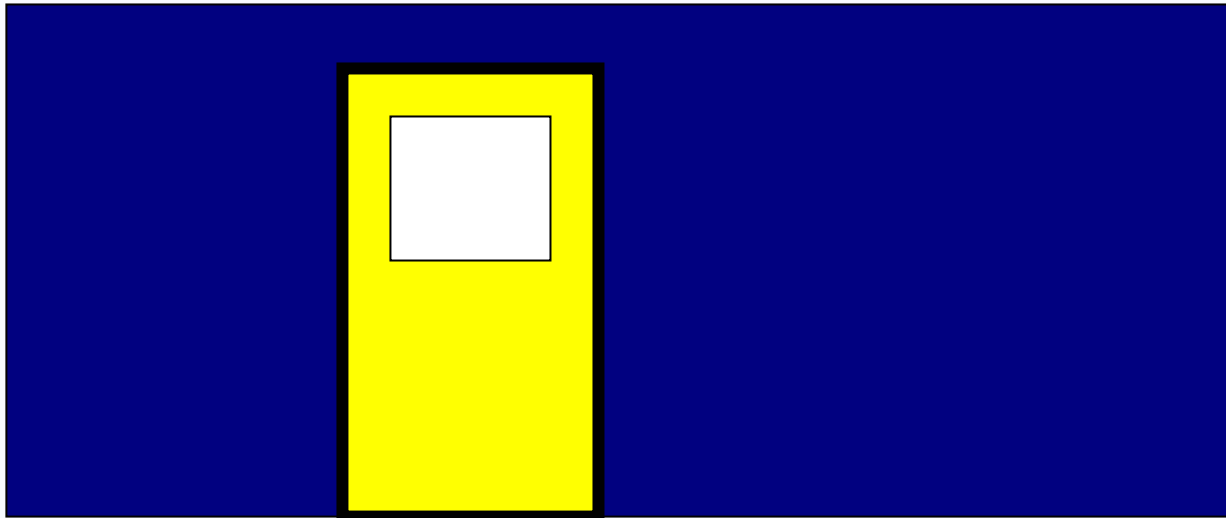
# Colour contrast and livery

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# Colour contrast and livery

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# The Importance of Case

# The importance of case

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Luggage

LUGGAGE

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# Making Requirements a Feature



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# Conclusion

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**Train engineers to understand the needs of disabled people and the design will come naturally, be compliant, workable and not need expensive VO's**

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are 70?**



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