Implementing Randomized Algorithms:
Text to Matrix Generator Toolbox

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Text Mining: Why to use Randomization?
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Application

Problem

Big Data \{ Storage Problems, Interpretation Problems \}
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Interpretation Problems \}

What we need?

✓ Few passes to the secondary memory
✓ Few blocks in RAM
✓ Low dimensionality
✓ Interpretability
✓ Speed ??
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Solution

Randomized Techniques
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- Toolbox developed in University of Patras for text mining tasks over document collections
- Educational and Research tool
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- over 18,500 lines of `matlab` and `perl`
- takes advantage from sparse technology provided by MATLAB
- first version by Zeimpekis (´06)
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Questions ?