#+name: author-list #+header: :var authors=authorlist #+header: :var add-authors=additional-authors #+header: :results latex #+header: :exports results

# Using Emacs Org-mode to Create Reproducible Research

[Demo]*

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## ABSTRACT

One important aspect of open science is the ability to reproduce results using the published data set. For this purpose it is crucial to use similar methods and tools as the original author producing the same result set. Reproducible research is a movement that tries to bridge this gap: within one single set of data one can not only find the raw data but also the methods and tools to process the data. The ultimate discipline is to complete this cycle from the raw data up to the presentation in the derived paper. This paper demonstrates using a simple example how to combine raw data, scripts of various languages, and the describing text of a paper in one single file.

#+name: ACM-categories #+header: :var c=categories #+header: :results latex #+header: :exports results

## Categories and Subject Descriptors

D.2.3 [**SOFTWARE ENGINEERING**]: Coding Tools and Techniques

## General Terms

## Keywords

Open Science, Reproducible Research, Org-mode, Emacs, Tools

## 1. EMACS ORG-MODE

[5]

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[1]

[3]

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```
x = str(y)
```

This is an inline snippet of Python: `x = str(y)`.

### 1.1 Tables

**Table 1: [Short caption]{Long caption}**

| Head1 | Head2 |
|---|---|
| foo | bar |

## 2. REFERENCES

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*The full source code of this paper is available on github `https://github.com/novoid/orgmode-iKNOW2012`

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