Introduction

The Bourbaki Project is a directed acyclic graph of mathematical concept sheets. A **sheet** is a two-page document of concepts, terms, results and notation. The graph is defined implicitly by the dependencies between concepts, terms, results and notation introduced in the sheets.

The graph is defined to capture the intuition behind ordering sheets for an unaqcuainted reader. Suppose the unacquainted reader wants to read sheet A, but sheet A uses uses concepts, terms, notation or results introduced in sheet B. To understand A, the reader should first read B. If, further, B uses concepts from C, the reader must first read C. The unacquainted reader must read all sheets introduction So, the sheets a use needs to read The idea Needs should be transitive: if A needs B and B needs C, then A needs C.

The Bourbaki graph is the minimal graph whose transitive closure gives all needs: in other words, if A needs B and B needs C, then the Bourbaki graph include edges from A to B and B to C, and not from A to C since this edge is implied by transitivity.

We must not forget that the modern digital computer and the screen are the *envy* of every scholar in every age before ours. Let us not rely so much on

our cleverness than on our prudence in doing what
they would have in our shoes.

Yes, there are several things which different people
call least squares. And with good reason. But let
us decide on what we mean by least squares and so
know what we are talking about.

These sheets contain nothing but fiction. And yet, to the
best of my knowledge, everything is true.