

Jalote, pg 12

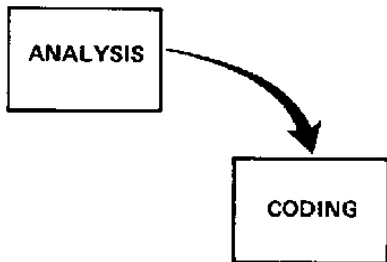


Figure 1. Implementation steps to deliver a small computer program for internal operations.

Royce 1970

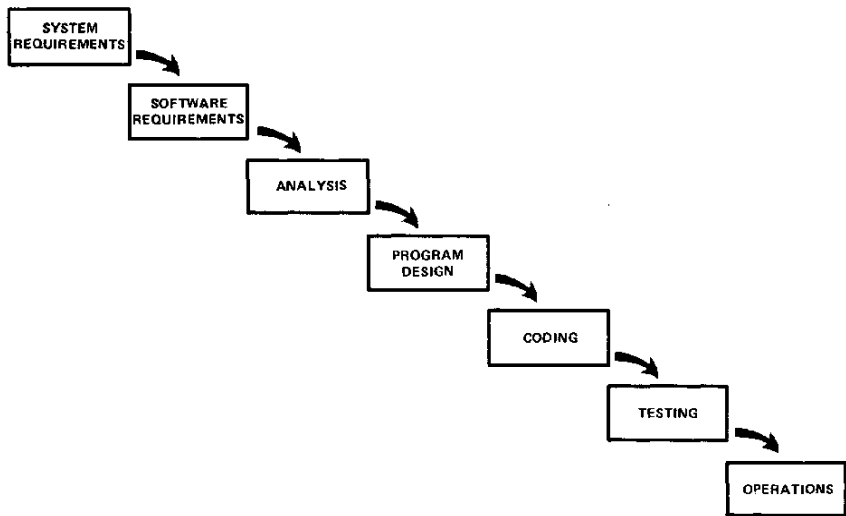


Figure 2. Implementation steps to develop a large computer program for delivery to a customer.

Royce 1970

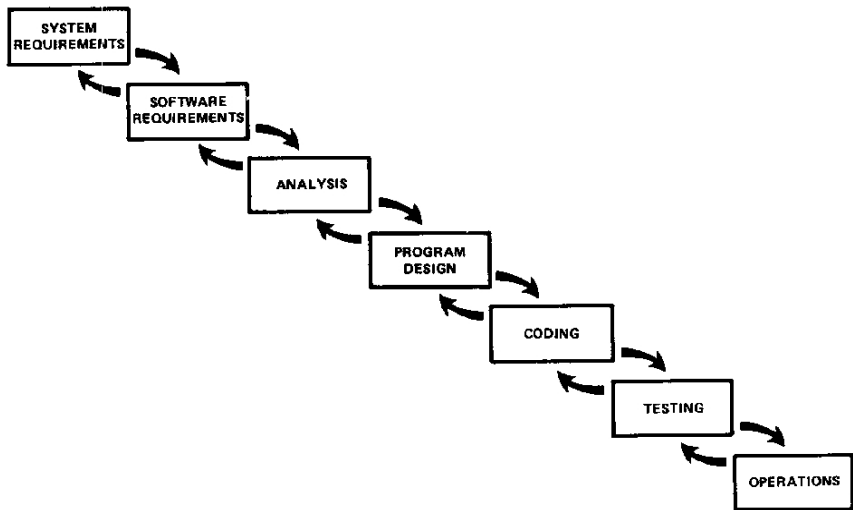


Figure 3. Hopefully, the iterative interaction between the various phases is confined to successive steps.

Royce 1970

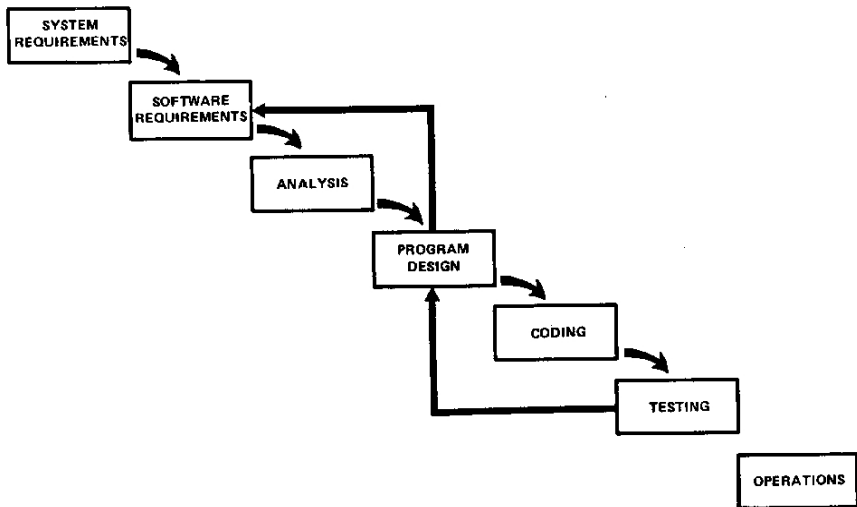


Figure 4. Unfortunately, for the process illustrated, the design iterations are never confined to the successive steps.

Royce 1970

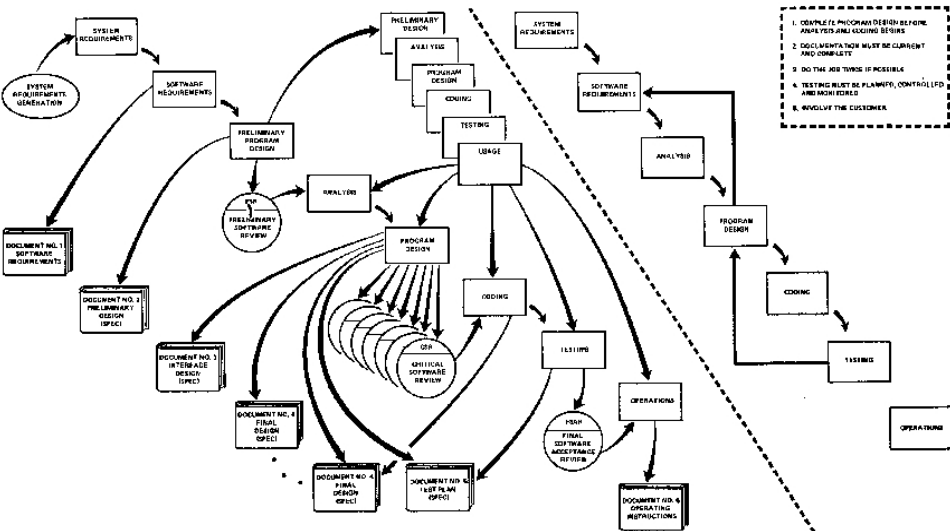


Figure 10. Summary

Brooks on the Waterfall Model

The basic fallacy of the waterfall model [as it has often been understood, not necessarily as Royce put it] is that it assume as project goes through the process once, that the architecture is excellent and easy to use, the implementation design is sound, and the realization is fixable as testing proceeds. Another way of saying it is that the waterfall model assumes the mistakes will all be in the realization, and thus that their repair can be smoothly interspersed with component and system testing. (MMM, pg 266)