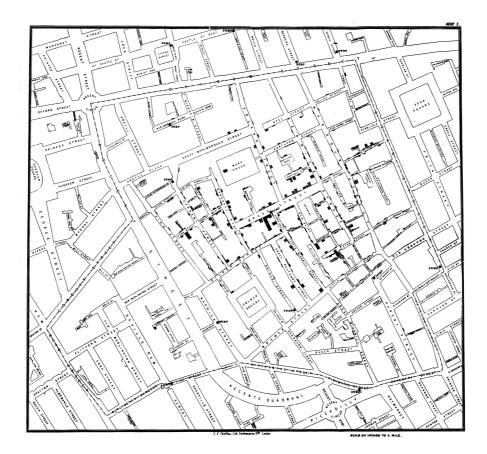
Broadwick User & Developer Guide





Published by C.F. Cheffins, Lith, Southhampton Buildings, London, England, 1854 in Snow, John. On the Mode of Communication of Cholera, 2nd Ed, John Churchill, New Burlington Street, London, England, 1855.

(This image was originally from en.wikipedia; description page is/was here.

Cover Picture

A variant of the original map drawn by Dr. John Snow (1813-1858), a British physician who is one of the founders of medical epidemiology, showing cases of cholera in the London epidemics of 1854, clustered around the locations of water pumps.

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1. INTRODUCTION

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Maven

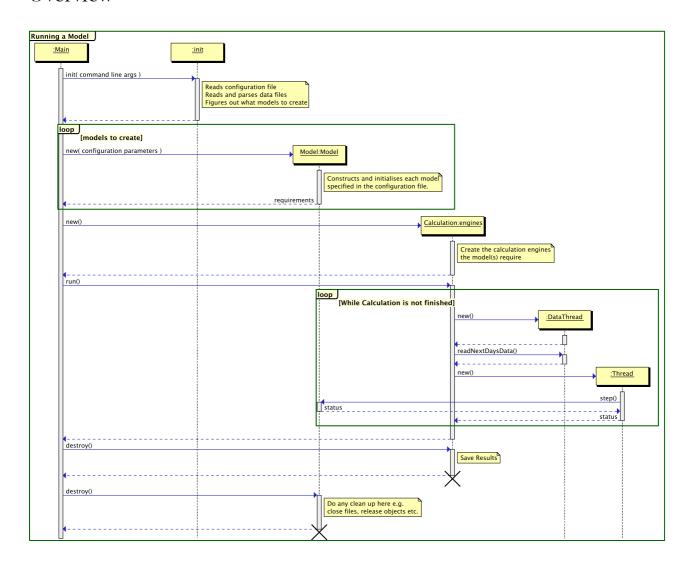
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Sonar

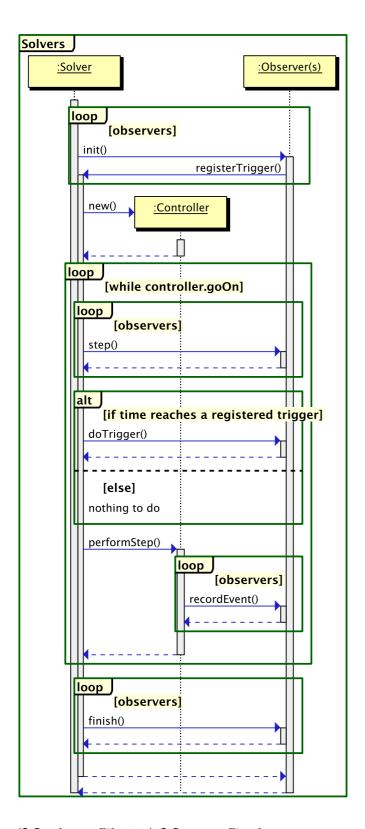
Sonar is ...

2. Architectiure

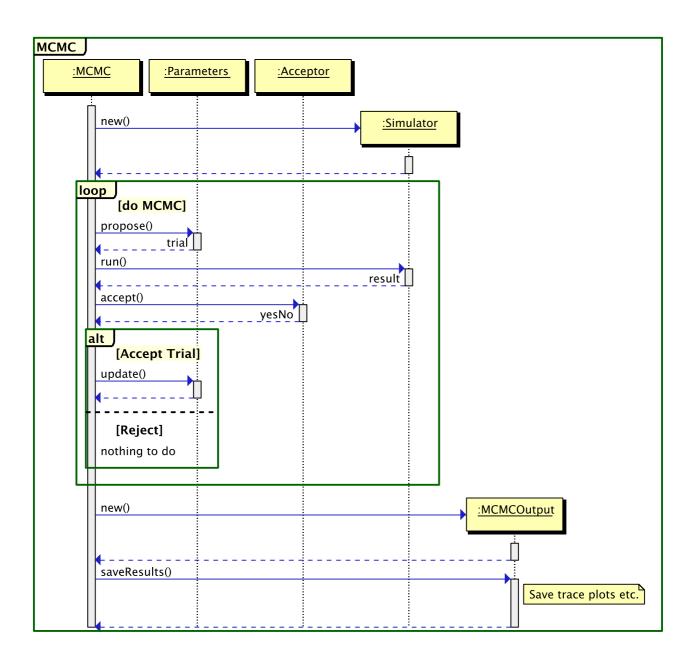
Overview



Simulators



(Markov Chain) Monte Carlo



3. Writing Models

4. Tips

To avoid NullPointerExceptions use Guava's Preconditions as in the following examples. Here the state of a field is checked (in a concise way) to determine if it is not null before being used and in the second example, the method arguments are checked.

```
public void doSomething() {
  checkState( field.isPresent(), "Argument is not initialied" );
  doSomethingMore();
}

public void doSomething( List<Object> list ) {
  checkArgument( list != null, "List must not be null" );
  checkArgument( !list.isEmpty(), "List must not be empty" );
  doSomethingMore( list );
}
```