
Examples Of Good And Bad Essay Introductions

Freshness and name-restriction in sets of traces with names

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Abstract. We use nominal sets (sets with names and binding) to define a framework for trace semantics with dynamic allocation of resources. Using novel constructions in nominal sets, including the technical devices of *positive nominal sets* and *maximal planes*, we define notions of capture-avoiding composition and name-restriction on sets of traces with names. We conclude with an extended version of Kleene algebras which summarises in axiomatic form the relevant properties of the constructions.

1 Introduction

Imagine a process evolving; every so often it may communicate with the outside world. In particular it may generate a new resource (allocate some memory; or perhaps create a cryptographic secret; or perhaps create a new channel name) and communicate that new resource.

Represent resources as *atoms* (set-theorists can think of *urelemente*; process-calculists can think of *names*). Then a model of the behaviour of our process is a trace (finite list of actions) that may contain atoms, and a model of the process is the set of all its possible traces. This is the *trace semantics* of computation [1], widely-used both in theory and application (e.g. the SPIN model-checker [17]).

Thus, a model of behaviour for processes with dynamic allocation, is sets of traces with atoms. But how then to represent dynamic allocation within this framework? After all, if a program outputs ab there is nothing in the string itself to tell us whether a , b , both a and b , or neither a nor b , has been 'created fresh'.

We propose to represent binding using a notion similar to that of nominal abstract syntax [15]; if e.g. ab is a possible trace of the process then the a in that trace is considered a -convertible when for all but finitely many a' , $a'b$ is also in the set of possible traces of the process (note there is no binding primitive on the trace itself).

We will develop a model of binding based purely on sets of traces, such that:

- There is an operation va that takes a behaviour (set of traces) X and creates another behaviour (also a set of traces) $va.X$ in which a is a -renameable.
- Union of sets of traces is exactly union of sets.
- There is a notion of capture-avoiding composition \circ such that $(va.X) \circ vb.Y = va.vb.(X \circ Y)$ if we choose a fresh for Y and b fresh for X . Thus $(va.ab) \circ vb.b = va.vb'.abb'$. Note that $ab \in va.ab$ and $b \in vb.b$ but abb is *not* in their composition, because of capture-avoidance.

Finally we introduce axioms that regulate the behaviour of v , by suggesting a notion of 'nominal' Kleene algebra [20].

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Mental Rehearsal CHAPTER 3 The Buyer's Journey After the prospect has formed a mental image of you, she needs to understand why your product or service is the best choice. The buyer's journey is the process of educating a potential buyer about your product or service and its benefits, while giving her enough insight to feel that it would be an advantage to buy from you instead of your competitors. 82157476af

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