

AWWSW notes for June 2010 TAG F2F

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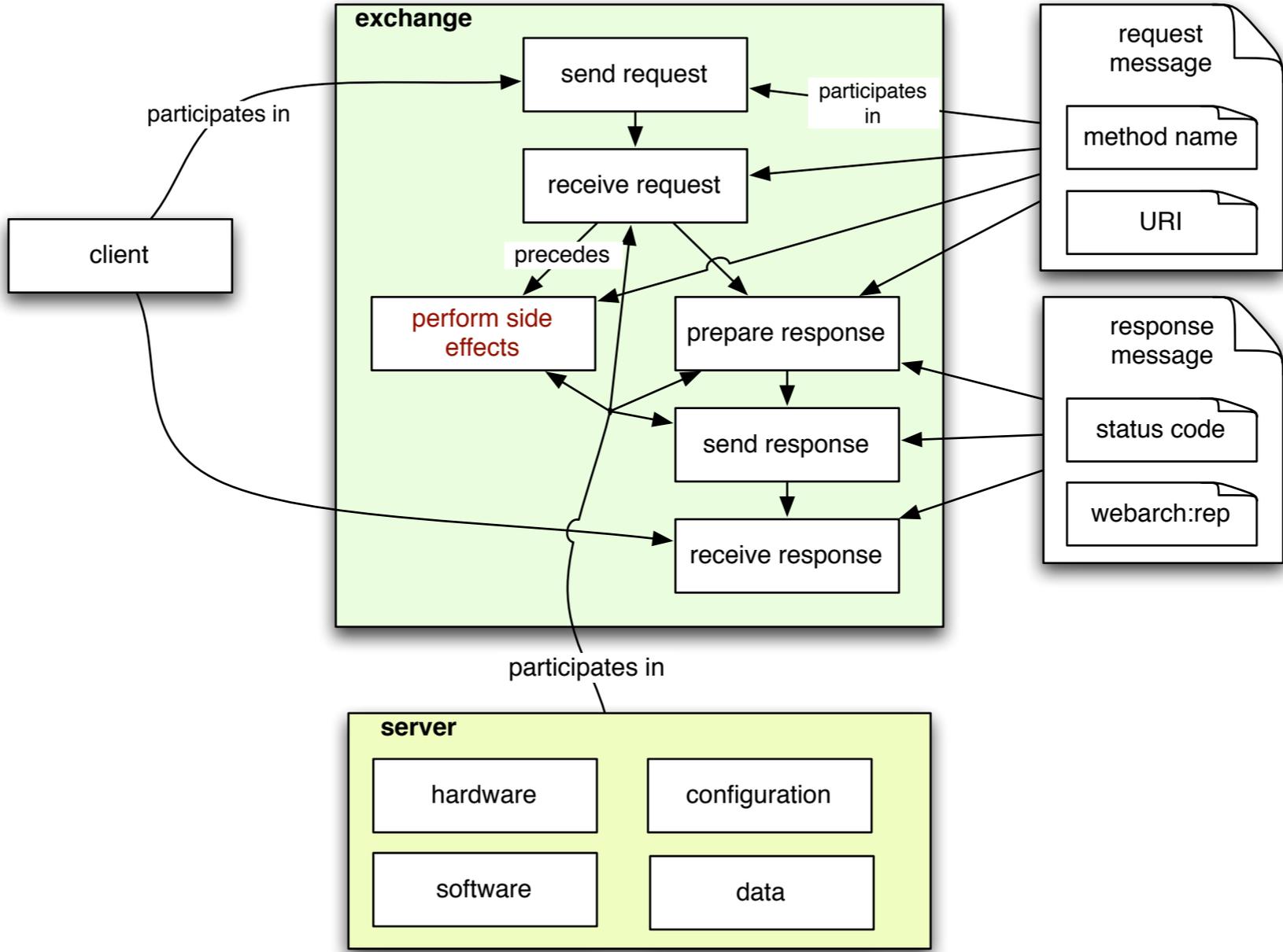
how semantics discussions go wrong

- unclear goals
- vocabulary turf wars
 - “resource” “representation” “meaning”
- unstated assumptions
- eager interpretation
- interruptions

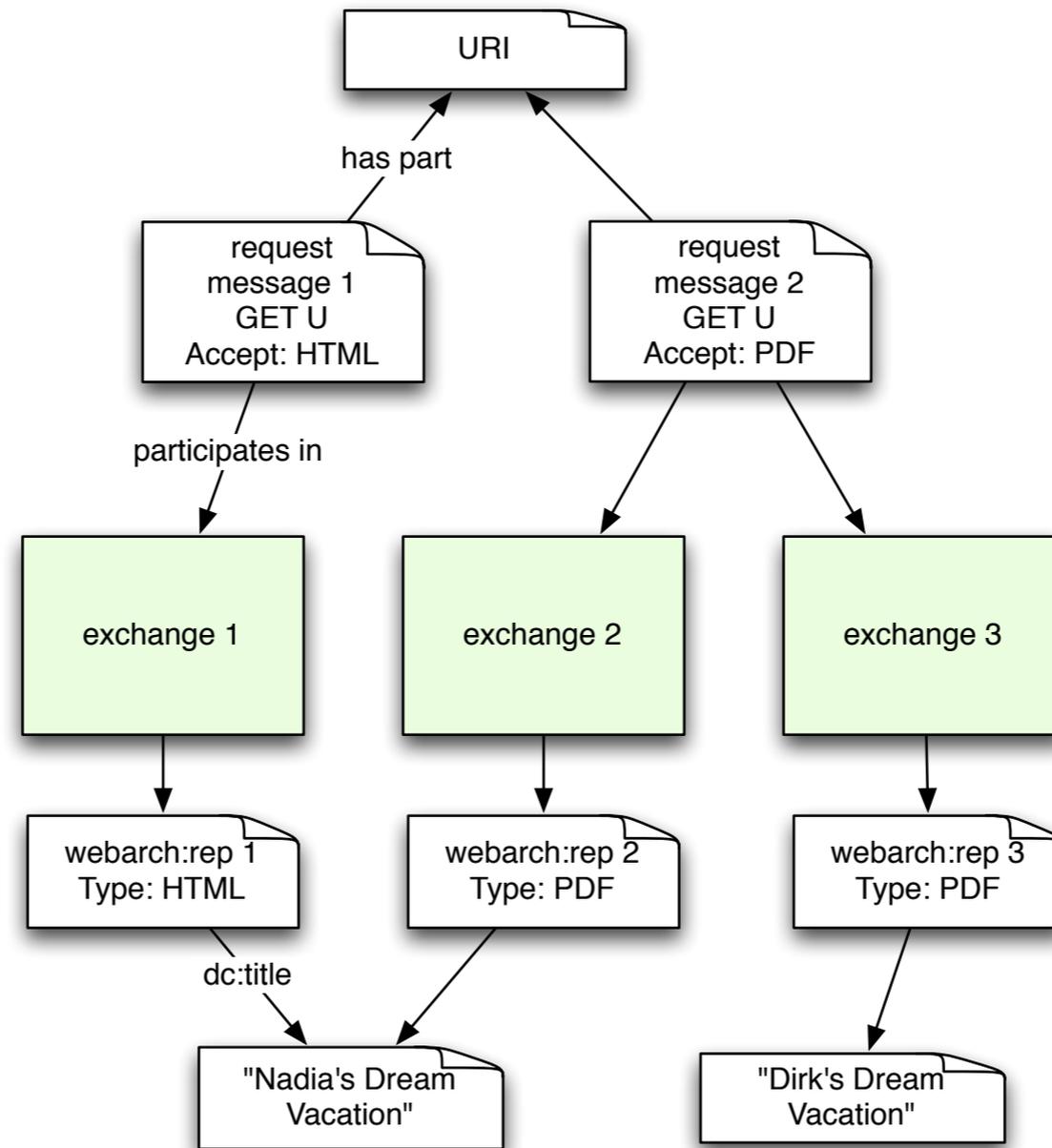
a way out

- formal methods
 - axiomatic method
 - mathematical models
 - operational interpretation
- unfamiliar symbols and precise logical relations help to manage expectations

HTTP Semantics Landscape: Exchanges



Exchange Variability



subclasses of Exchange

- by restriction (properties of members)
 - wa:rep invariants (checksum, media type, title)
 - relation to world (current weather report, news site)
- by inclusion
 - historical occurrence
 - known variability

subclasses of Exchange

- how to use

- empirical / historical (it happened)
- promise (owner promises to make it happen) (SLA)
- hypothetical (it looks like this is what will happen)
- induced (if it's this resource, here's what should happen)

induced exchange classes

- Suppose d is member of foaf:Document [or some other class of ‘informationresourcy’ things].
- There is an exchange class (\sim API) that’s appropriate for d .

- HTTP behavior (“API”) validators - compare actual behavior to promised behavior
- Link:, .well-known as a way to communicate promises