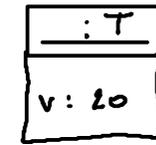
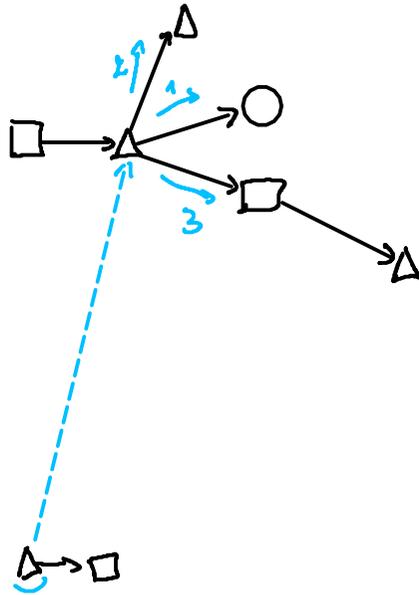
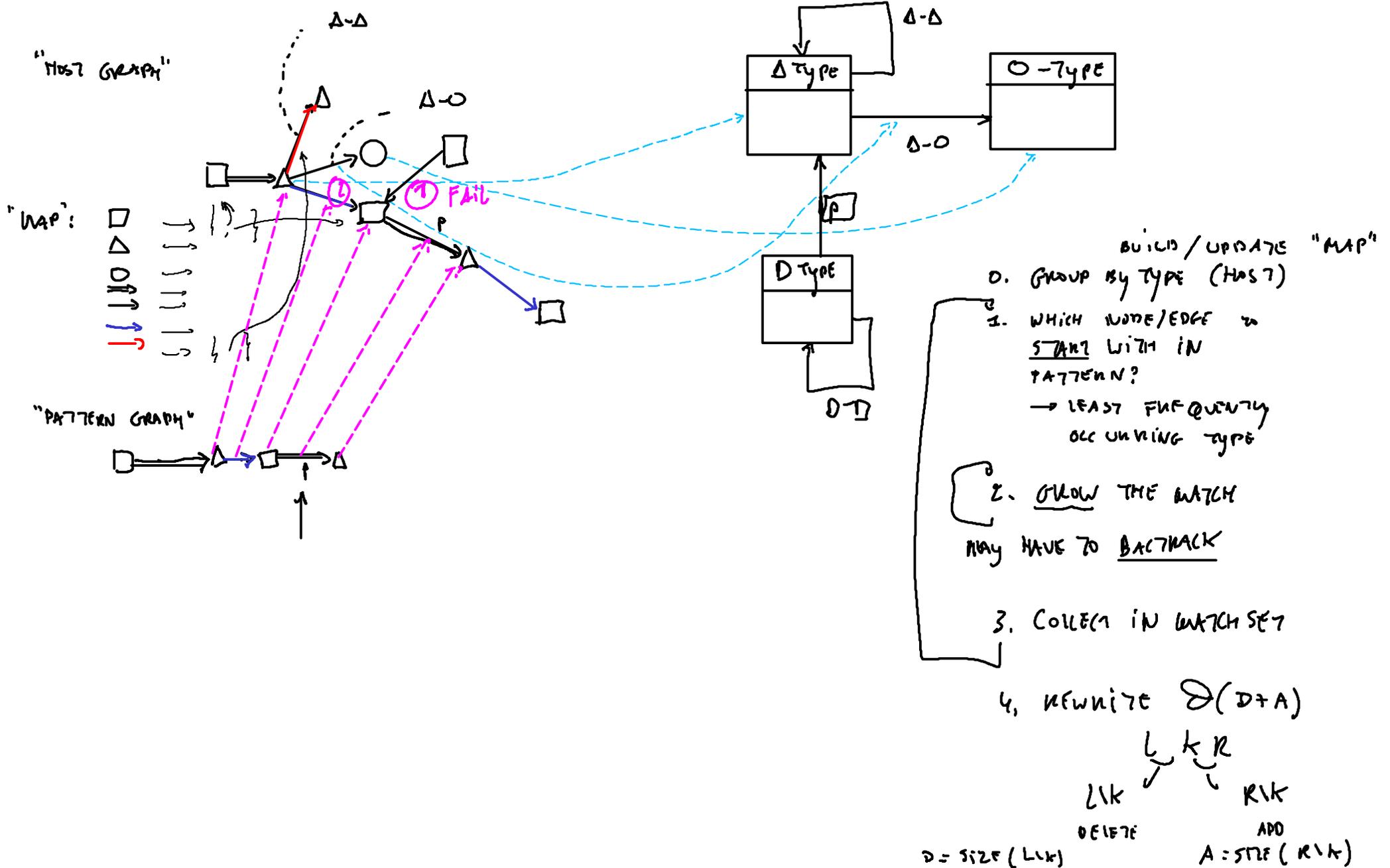


A. SEARCH PLANS



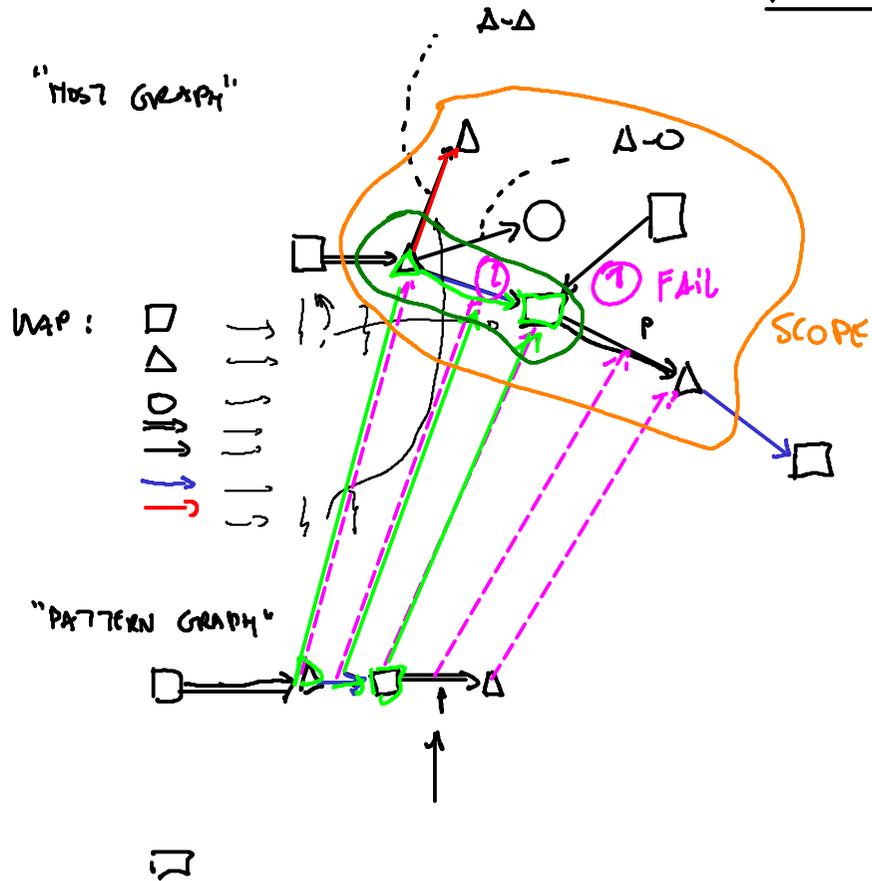
: PATTERN
CONSTRAINT EXPRESSION
 $0 \leq v \leq 10$

B. CONSTRAINT SATISFACTION - BASED ... VF2 HEURISTICS



PIVOT PARTIAL MATCH

SUB-GRAPH OF HOST GRAPH



WHEN TO START

FIRST MATCH

Θ (SIZE (PATTERN GRAPH))
LINEAR!

SIZE (HOST GRAPH) $> 10^6$

"COMPLEX PATTERN"
→ FAIL EARLY
(FEWER MATCHES)

SCOPE

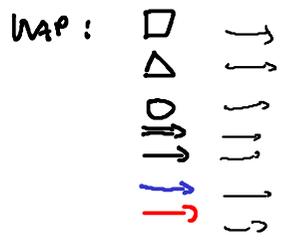
WHAT TO EXCLUDE FROM HOST GRAPH

→ SIZE OF (SCOPE GRAPH)

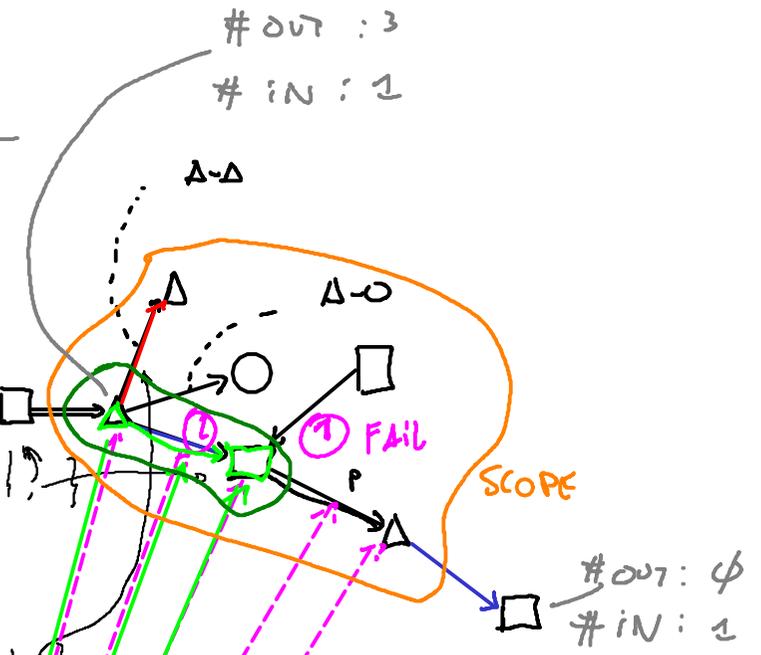
HEURISTIC

FAIL EARLY
EXTRA PRE-PROCESSING

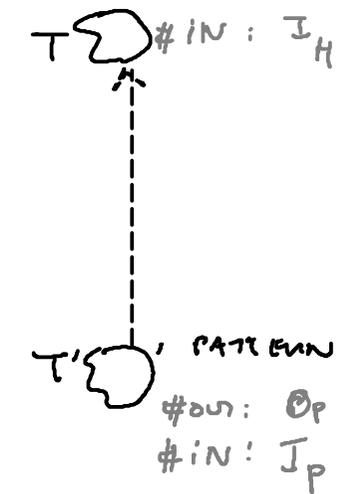
"HOST GRAPH"



"PATTERN GRAPH"



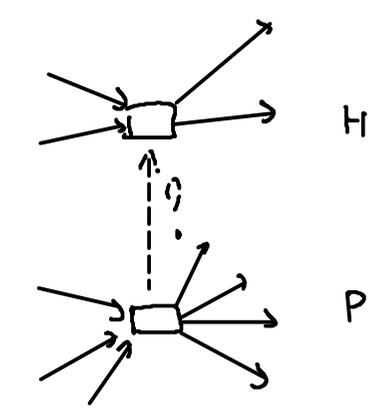
UPDATE WHEN
HOST CHANGES
IN RHS OF RULE
"NEWLINE" PHASE
#OUT: O_H



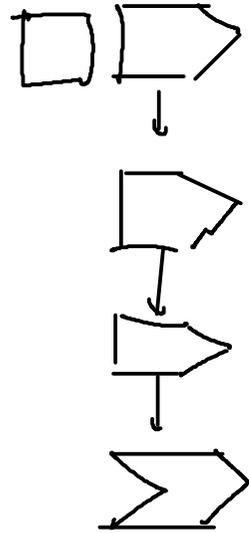
NO UPDATE
NEEDED

$$I_P \leq I_H$$

$$O_P \leq O_H$$



AMALGAMATED RULES



ANEND KENSINK

Repotting the Geraniums: On Nested Graph Transformation Rules