









## Task Decomposition

## Aims:

describe the actions people do structure them within task subtask hierarchy describe order of subtasks

## Variants:

Hierarchical Task Analysis (HTA) most common CTT (CNUCE, Pisa) uses LOTOS temporal operators Construction

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HUMAN-COMPUTER INTERACTION







Refining the description		
Given initial HTA	A (textual or diagram)	
How to check	x / improve it?	
Some heuristics	:	
paired actions	e.g., where is `turn on gas'	
restructure	e.g., generate task `make pot'	
balance	e.g., is `pour tea' simpler than making pot?	
generalise	e.g., make one cup or more	



Types of p	uman-scomputer blan
fixed sequence	- 1.1 then 1.2 then 1.3
optional tasks	- if the pot is full 2
wait for events	- when kettle boils 1.4
cycles	- do 5.1 5.2 while there are still empty cups
time-sharing	- do 1; at the same time
discretionary	- do any of 3.1, 3.2 or 3.3 in any order
mixtures	<ul> <li>most plans involve several of the above</li> </ul>

