Building Blocks for Modern Programming Languages

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yada yada yada ...
yada yada yada ...
yada yada yada ...

yada ...
yada yada yada ...
yada ...
yada ...
yada ...
yada yada
  yada yada
  yada yada
    ....
yada yada
yada yada yada
Find a clean knife ...
For each utensil:
Look at the utensil.
If it’s a knife and it’s clean ...
Look at 1\textsuperscript{st} utensil. If it’s a clean knife ... Otherwise,
Look at 2\textsuperscript{nd} utensil. If it’s clean knife ... Otherwise, ...
SYNTAX + SEMANTICS
SYNTAX + SEMANTICS

TOOLS to JUDGE QUALITY of TEXTS
i := 1
done := false
while done == false
    u := utensils[i]
    if isKnife(u) and isClean(u)
        ...
        done := true
    else
        ...
        i := i + 1
done := false
foreach u in utensils
    if isKnife(u) and isClean(u)
        ...
        done := true
    else
        ...
    
...
find an utensil $u$ such that $\text{isKnife}(u)$ and $\text{isClean}(u)$
find a utensil u such that
  isKnife(u) and
  isClean(u)
SYNTAX + SEMANTICS
SYNTAX + SEMANTICS

TOOLS to JUDGE QUALITY of PROGRAMS
"STATIC" vs "DYNAMIC"

- Static: Tetris game board with various colored blocks
- Dynamic: Blank page

The image illustrates a comparison between static and dynamic elements, possibly in a gamification or software development context.
Thanks!

http://home.cmit.net/rwolbeck/programmingtutorial/code/fullscreen%20tetris.png
http://sbstn723.deviantart.com/art/Tetris-Blocks-162660584
http://its-a-green-life.com/2013/02/10/beautiful-pebblestone-art-at-winslow-wharf-marina/
Pint of Science

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