

Section 8:

Operational Semantics*

CS 164 @ UC Berkeley, Spring 2024

*for ChocoPy, and only the basics

Reminders

WA 5 is due on Thursday, April 11 at 11:59 PM PST.

PA3 is released!

- Checkpoint is on April 8th
- Final due date is April 15th

Reminder to take care of yourselves, and to prioritize your health! WAs are worth 5% of your grade so don't stress too much about them!

Operational Semantics

Rules which use contexts to evaluate expressions and statements

Syntax:

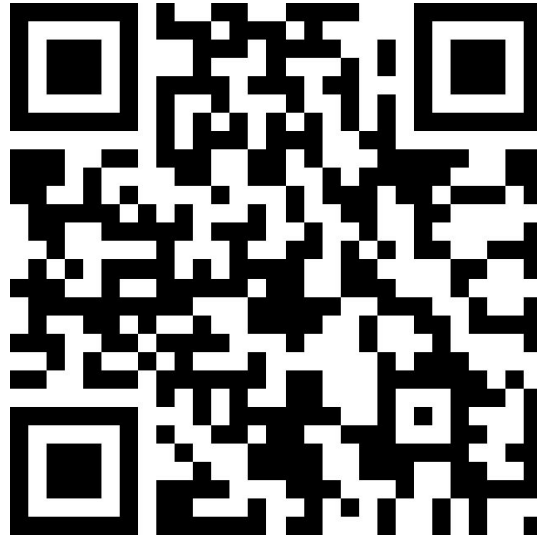
Hypotheses over a conclusion

$$\frac{\begin{array}{l} E(id) = l_{id} \\ S(l_{id}) = v \end{array}}{G, E, S \vdash id : v, S, -} \quad [\text{VAR-READ}]$$

Contexts

E	The runtime environment:	Maps id's to locations
S	The runtime storage/memory:	Maps locations to values
G	The global environment:	Maps globally defined id's to locations

$$\frac{E(id) = l_{id} \quad S(l_{id}) = v}{G, E, S \vdash id : v, S, -} \quad [\text{VAR-READ}]$$



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