

# The Grammar of Necessity

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Mastering the structures of obligation and exemption.

# Defining the States of Action



## Have to

External Obligation (1)

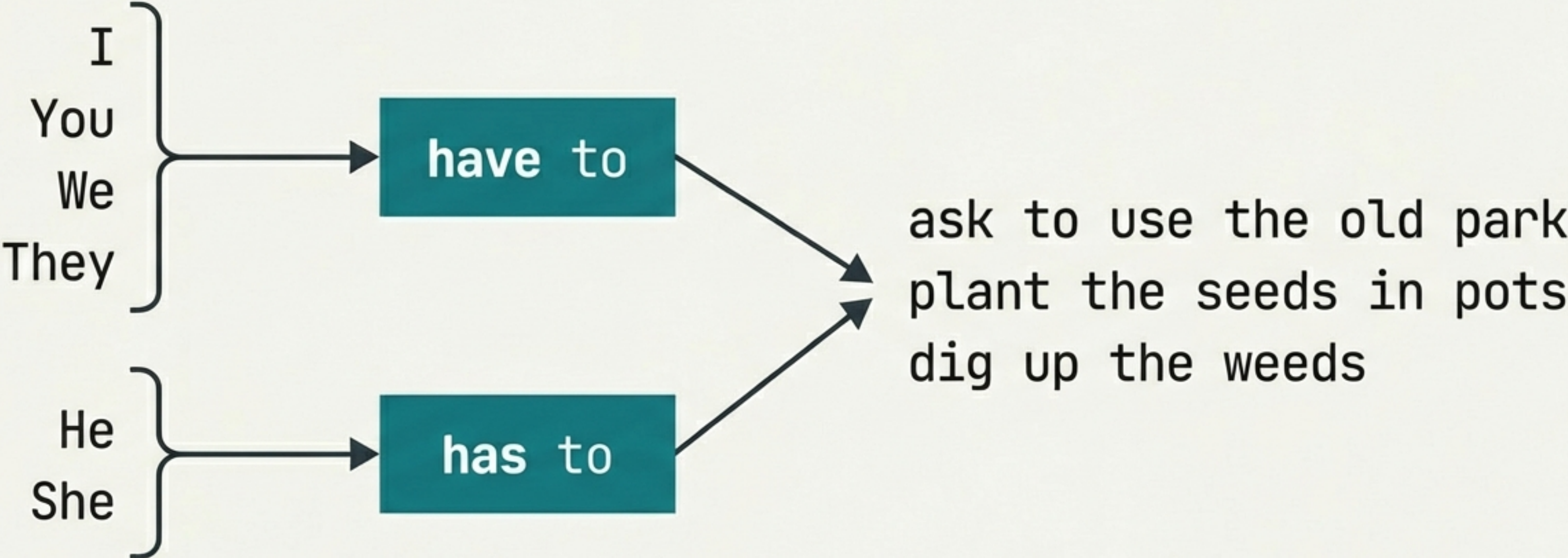


## Don't have to

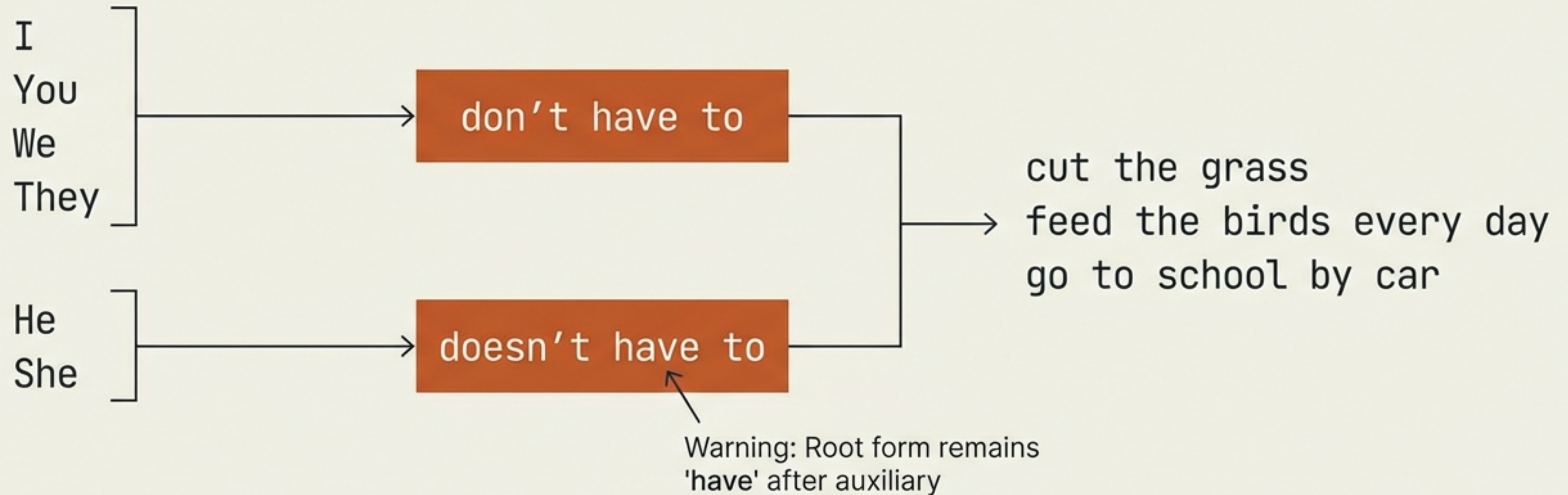
Absence of Obligation (0)

We utilize specific linguistic structures to distinguish between what is mandatory and what is optional.

# The Algorithm: Positive Obligation



# The Algorithm: Absence of Obligation



# The Data Set: Domain of Action

The specific tasks subject to assignment.



dig up  
the weeds



feed the  
cat



tidy your  
bedroom



clean the  
kitchen



cut the  
grass



do the  
dishes



plant  
seeds

# Subject Profiles & Parameters



**Luna & Nicolas**

- [✓] do the dishes
- [✓] tidy your bedroom
- [✓] clean the kitchen
- [✗] cut the grass
- [✗] feed the cat



**Riley & Alex**

- [✓] dig up the weeds
- [✓] feed the cat
- [✓] tidy your bedroom
- [✗] cut the grass
- [✗] clean the kitchen



**Maha & Mounia**

- [✓] cut the grass
- [✓] tidy your bedroom
- [✓] dig up the weeds
- [✗] feed the cat
- [✗] clean the kitchen

# Synthesis: Positive Plural Construction

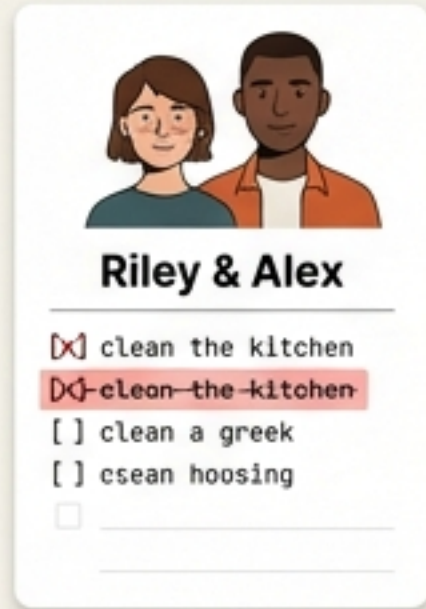
Subject: Luna & Nicolas (They)



Logic check: Plural Subject requires base form operator.

# Synthesis: Negative Plural Construction

Subject: Riley & Alex (They)



They



don't  
have to



clean the  
kitchen

Logic check: Task is marked as optional/cross-out.  
JetBrains Mono Deep Charcoal, JetBrains Mono.

# Complex Synthesis: The Pivot

They have to dig  
up the weeds

**BUT**

they don't have  
to cut the grass.

↑  
Obligation (True)

↑  
Exemption (False)

# Logic Test: Identify the Subject

We have to cut the grass, but we don't have to feed the cat.



**A** Luna & Nicolas



**B** Riley & Alex



**C** Maha & Mounia

# Analysis Complete

## Maha & Mounia

cut the grass

tidy your bedroom

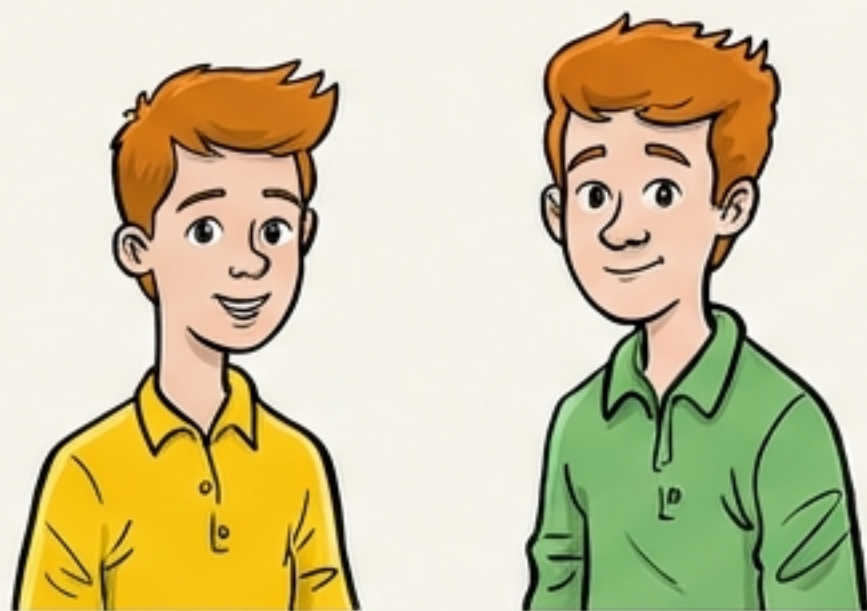
dig up the weeds

feed the cat

clean the kitchen

MATCH CONFIRMED ✓

# Variable Shift: Singular Subjects



They **have to** tidy their  
bedroom.

**Singular input triggers  
operator shift.**



He **has to** tidy his bedroom.

# The Architecture of Obligation

	POSITIVE (+)	NEGATIVE (-)
PLURAL (I/You/We/They)	<b>have to</b> + action	<b>don't have to</b> + action
SINGULAR (He/She)	<b>has to</b> + action	<b>doesn't have to</b> + action

The foundation of expressing necessity.

# Structure Enables Growth



Understanding the logic of language  
gives you the tools to describe your world.