

Day 2: Theoretical Landscape

An opinionated guide to the language of opinion

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Desiderata for a theory

- ▶ Faultless disagreement
- ▶ Normative effect
- ▶ Non-autocentric uses
- ▶ Overt tasters

Preview of the theoretical landscape: How are opinions determined?

- ▶ **Contextualism:** by the context of utterance (Bhatt and Pancheva 1998; McCready 2007; Anand 2009; Moltmann 2010b; Schaffer 2011; Pearson 2013; Kennedy and Willer 2016; Zakkou 2019 a.o.)
- ▶ **Relativism:** by the context of assessment/index (Kölbel 2004; Lasersohn 2005, 2017; Stephenson 2007a,b; Sæbø 2009; Egan 2010; MacFarlane 2014; Bylinina 2017; Coppock 2018 a.o.)

Agenda for today

- ▶ Semantic background
- ▶ Judge-relativism (Lasersohn 2005, 2017; Stephenson 2007a,b)
- ▶ Sophisticated contextualism (Pearson 2013)

Semantic background

Core notions

- ▶ Indexicality
- ▶ Intensionality
- ▶ Shifted indexicality

Indexicality I

- ▶ Indexicals: *I, you, here, now*
 - ▶ Indexicals vs. definite descriptions
- (1) a. **I** am in Germany.
- b. **The speaker** is in Germany.
- (2) a. **I** always have brown hair.
- b. **The speaker** always has brown hair.
- (3) a. Pranav thinks that **I** have brown hair.
I = Natasha
- b. Pranav thinks that **the speaker** has brown hair.
the speaker = someone else

Indexicality II

- ▶ Contexts and indices (in an intensional framework, Cresswell 1990)

(4) $\llbracket \cdot \rrbracket^{c,i,g}$

(5) Context: the situation of utterance

$$c_k = \langle \text{author}, \text{hearer}, \text{location}, \dots, \text{world} \rangle$$

(6) Index: the circumstances of evaluation

$$i_k = \langle t, w \rangle$$

Indexicality III

- ▶ Indexicals: directly referential (Kaplan 1989; another term: rigid designators, like proper nouns)

- (7) a. $\llbracket \text{I} \rrbracket^{c,i,g} = \text{AUTHOR}(c)$
 b. $\llbracket \text{you} \rrbracket^{c,i,g} = \text{HEARER}(c)$
 c. $\llbracket \text{here} \rrbracket^{c,i,g} = \text{LOCATION}(c)$

- ▶ Unlike definite descriptions

- (8) a. $\llbracket \text{the speaker} \rrbracket^{c,i,g} =$
 $\iota x [x \text{ is a speaker in } \text{WORLD}(i) \text{ at } \text{TIME}(i)]$
 b. $\llbracket \text{the addressee} \rrbracket^{c,i,g} =$
 $\iota x [x \text{ is an addressee in } \text{WORLD}(i) \text{ at } \text{TIME}(i)]$

- ▶ Ignoring bound readings (Partee 1989; Cable 2005; Kratzer 2009; Wurmbrand 2015; Podobryaev 2017)

Indexicality IV

Defining properties (Schlenker 2011, 2018)

Sensitive to the context of utterance, and only to it

► Utterance-sensitivity

- (9) a. **Natasha**: I am a vegetarian. 'I' = Natasha
b. **Pranav**: I am a vegetarian. 'I' = Pranav

► Insensitivity to quantification

- (10) a. **Natasha**: At some point, I was tired. 'I' = Natasha
b. **Natasha**: At some point, **the speaker** was tired.
'the speaker' can be Natasha but does not have to be
(cf. Schlenker 2011:1570)

Indexicality V

Bottom line

- ▶ Indexicality is a special type of reference
- ▶ Most accounts capture it via direct referentiality

Indexicality VI



**THE FIRST AND LAST TIME
DAVID KAPLAN WENT TO YOGA**

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Intensionality I

- ▶ Speech and attitude verbs: intensional environments
- ▶ Classic semantics: quantifiers over possible worlds (Hintikka 1969)

- (11) a. $\llbracket \text{think} \rrbracket^{c,i,g} = \lambda p \lambda x. 1 \text{ iff } \forall i' \in \text{DOX}_{x,i} [p(i')]$
 b. $\text{DOX}_{x,i} = \{i' \mid i' \text{ is compatible with what } x \text{ thinks in } i\}$
- (12) a. $\llbracket \text{say} \rrbracket^{c,i,g} = \lambda p \lambda x. 1 \text{ iff } \forall i' \in \text{SAY}_{x,i} [p(i')]$
 b. $\text{SAY}_{x,i} = \{i' \mid i' \text{ is compatible with what } x \text{ said in } i\}$

- ▶ Lots of newer work on finer-grained semantics (Schlenker 2003; Anand and Nevins 2004; Kratzer 2006; Stephenson 2007a, 2010; Moulton 2009; Grønn and von Stechow 2010; Hacquard 2010; Anand and Hacquard 2013; Pearson 2015, 2016)

Intensionality II

- ▶ Non-indexicals in intensional environments

(13) $\llbracket \text{Pranav thinks that the speaker has brown hair.} \rrbracket^{c,i,g}$
= $\forall i' \in \text{DOX}_{\text{Pranav},i} : \llbracket \text{the speaker has brown hair} \rrbracket^{c,i',g}$
= 1 iff $\forall i' \in \text{DOX}_{\text{Pranav},i} : [\text{the speaker has brown hair in } i']$

- ▶ Indexicals in intensional environments

(14) $\llbracket \text{Pranav thinks that I have brown hair.} \rrbracket^{c,i,g}$
= $\forall i' \in \text{DOX}_{\text{Pranav},i} : \llbracket \text{I have brown hair} \rrbracket^{c,i',g}$
= 1 iff $\forall i' \in \text{DOX}_{\text{Pranav},i} : [\text{AUTHOR}(c) \text{ has brown hair in } i']$

Intensionality III

Bottom line

Indexicals in English are not affected by intensional quantification

Shifted indexicality I

Upshot

True indexicals may switch reference in attitudes

- ▶ The phenomenon (Schlenker 1999; Anand and Nevins 2004; Deal 2020 a.o.)

(15) Korean (isolate; Korea)

John-i [Mary-ka **na-lul** cohahanta-ko] malhaysssta.
John-NOM [Mary-NOM **I-ACC** like-COMP] said

NON-SHIFTED: 'John said that Mary likes me'.

SHIFTED: 'John said that Mary likes her (Mary)'. (Park 2015)

- ▶ Independent evidence that such clauses are not quotations
(quotations are closed for syntactic and semantic operations; clauses with shifted indexicals aren't)

Shifted indexicality II

- ▶ Such pronouns are indexicals

(16) Korean

- Definite description

Obama-ka malhal ttyay.mata **hwaca-nun** taythonglyeng-ita.
Obama-NOM speak whenever **speaker-TOP** president-be
'Whenever Obama speaks, the speaker is president.'
speaker = Obama

- I

Obama-ka malhal ttyay.mata **na-nun** taythonglyeng-ita.
Obama-NOM speak whenever **I-TOP** president-be
'Whenever Obama speaks, I am president.' (Park 2015)
I ≠ Obama

Shifted indexicality III

- ▶ General consensus: shifted indexicality is handled by context-shifting operators (Anand and Nevins 2004; Anand 2006; Shklovsky and Sudo 2014; Deal 2020)
- ▶ Index

$$(17) \quad i_k = c^* = \langle author, hearer, \dots, world \rangle$$

- ▶ Monster

$$(18) \quad [\![\text{Monster} \phi]\!]^{c,i,g} = [\![\phi]\!]^{i,i,g}$$

Shifted indexicality IV

(19) Deriving indexical shift

- a. Pranav thinks that I am a space alien.

SHIFTED: 'Pranav thinks that he {Pranav} is a space alien'.

- b. LF: [Pranav thinks [ [I am a space alien]]]

c. $\llbracket 19a \rrbracket^{c,i,g}$

$$= \llbracket \text{think} \rrbracket^{c,i,g}$$

$$(\lambda i'. \llbracket \text{alien} \rrbracket^{c,i',g} [\text{I am an alien}]) (\llbracket \text{Pranav} \rrbracket^{c,i,g}) \\ = 1 \text{ iff } \forall i' \text{ compatible with what Pranav thinks at } i,$$

$$\llbracket \text{alien} \rrbracket^{c,i',g} [\text{I am an alien}]$$

$$= 1 \text{ iff } \forall i' \text{ compatible with what Pranav thinks at } i,$$

$$\llbracket \text{I am an alien} \rrbracket^{i',i',g}$$

$$= 1 \text{ iff } \forall i' \text{ compatible with what Pranav thinks at } i,$$

$$\text{AUTHOR}(i') \text{ is an alien at } i'$$

Shifted indexicality V

Bottom line

- ▶ Shifted indexicality is indexicality
- ▶ Shifted indexicals refer to a context
- ▶ Natural language has means of shifting the context

Could SPs be indexical? I

- ▶ Let us call it **indexical contextualism** (Kölbel (2004) calls such theories indexical relativism)

(20) $\llbracket \text{delicious} \rrbracket^{c,i,g} = \lambda x.x \text{ is delicious to } \text{AUTHOR}(c) \text{ in } \text{WORLD}(i) \text{ at } \text{TIME}(i)$

- ▶ Any apparent problems?

Could SPs be indexical? II

- ▶ Faultless disagreement

- (21) A. Oolong is delicious.
B. No, it isn't.

- (22) A. I'm in Germany.
B. # No, I'm not.

Could SPs be indexical? III

- ▶ Normative effects

- (23) a. I like oolong / Oolong tastes good to me.
 b. Oolong is delicious.

- ▶ An illustration in the wild [external link]

Could SPs be indexical? IV

- ▶ Non-autocentric uses

- (24) a. **Lorelai:** [The bridge] was sturdy and strong, made of this Japanese maple wood, which, it turns out, is exactly the kind of wood that attracts **beetles**. [...] Now we're gonna make it out of less **delicious BEETLES** wood.
(American TV series *Gilmore Girls*, Season 7, Episode 9)
- b. Indexical contextualist:
Lorelai: Now we're gonna make it out of less **delicious to me** wood.

- ▶ Possible escape route: a separate treatment of autocentric vs. non-autocentric uses (cf. Dinges and Zakkou 2020)
- ▶ Perspectival flexibility more generally: the behavior in attitudes and questions

Could SPs be indexical? V

- ▶ Attitudes: relativization to the attitude holder
- (25) a. **Pranav** thinks that this puerh is **delicious_{PRANAV}**.
- b. Indexical contextualist:
 Pranav thinks that this puerh is **delicious to me**.
- ▶ Could this be another instance of shifted indexicality (cf. Bylinina et al. 2014)? Yes, but no
 - ▶ Indexical shift highly constrained: not all indexicals, not all predicates, not all clause types (full story: Deal 2020)
 - ▶ SPs occur, and shift, in all intensional environments
 - ▶ The behavior of SPs in attitudes: unremarkable [Day 3]

Could SPs be indexical? VI

- ▶ **Interrogatives: relativization to the addressee** (an instance of the so-called interrogative flip, see discussion in Korotkova 2016; Zu 2018)

(26) *Context: my interlocutor is drinking spicy hot chocolate.*
Is it good/tasty?

- ▶ **Indexicals—even those that shift in attitudes—never shift in questions** (Korotkova 2020; pace McCready 2007)
- ▶ **SPs are highly flexible in questions** (shown already in Mitchell 1986)

Could SPs be indexical? VII

- ▶ Taking stock
 - ▶ Faultless disagreement ☹
 - ▶ Normative effect ☹
 - ▶ Non-autocentric uses ☹
 - ▶ Perspectival flexibility ☹

Could SPs be indexical? VIII

Bottom line

- ▶ Simple indexical contextualism does not work
- ▶ What does?

Judge-relativism

A taste of relativism (Lasersohn 2005) I

- ▶ PPTs express the same content
- ▶ Truth
 - ▶ depends on the index (=circumstances of evaluation)
 - ▶ varies with individuals
- ▶ Indices: minimally triples (cf. also Anand and Nevins (2004); Anand (2006) on individual coordinates of the index for indexical shift)

(27) Judge-enriched index (=centered world)
 $i = \langle w, t, j \dots \rangle$

- ▶ The SP-OP distinction: hard-wired in **semantics**

(28) $\llbracket \text{deciduous} \rrbracket^{c, \langle w, t, j \rangle} = \lambda x. x \text{ is deciduous in } w \text{ at } t$

(29) $\llbracket \text{fun} \rrbracket^{c, \langle w, t, j \rangle} = \lambda x. x \text{ is fun for } j \text{ in } w \text{ at } t$

A taste of relativism (Lasersohn 2005) II

- ▶ Faultless disagreement: unproblematic
- ▶ Truth:s relative to a judge
- ▶ Truth may vary with different judges (the speaker and the addressee)
- ▶ No contradictions arises (both can be true at the same time)

(30) ESSLII is fun. $\hookrightarrow \text{fun}'(e)$
 $\llbracket \text{fun}'(e) \rrbracket^{c, \langle w, t, j \rangle} = 1$ iff e is fun for *j* in *w* at *t*

(31) ESSLII is annual. $\hookrightarrow \text{annual}'(e)$
 $\llbracket \text{annual}'(e) \rrbracket^{c, \langle w, t, j \rangle} = 1$ iff e is annual in *w* at *t*

A taste of relativism (Lasersohn 2005) III

Bottom line

- ▶ Key idea: truth is relative to a non-indexical entity/individual
- ▶ Judge-dependence: key notion in a variety of frameworks
(Stephenson 2007a,b; Stojanovic 2007; Sæbø 2009 a.o.)

Stephenson (2007a,b) I

Central idea

- ▶ Modification and extension of (Lasersohn 2005)
- ▶ Unification of SPs and epistemics (note: Stephenson talks about taste predicates, not SPs across the board)
- ▶ Related frameworks: Stojanovic 2007; Sæbø 2009

Key components

- ▶ Judge: parameter of evaluation (as per Lasersohn (2005))
- ▶ SPs are diadic: the taster is an argument (cf. Bylinina 2017)
- ▶ The taster:
 - ▶ a special pronoun PRO_j
 - ▶ a null referential pronoun
- ▶ Judge-dependence: arises only with PRO_j

$$\begin{aligned}(32) \quad & [\text{ tasty }]^{c,\langle w,t,j \rangle} \\& = [\text{ tastes good }]^{c,\langle w,t,j \rangle} \\& = [\lambda x_e. [\lambda y_e. y \text{ tastes good to } x \text{ in } w \text{ at } t]]\end{aligned}$$

Stephenson (2007a,b) III

- ▶ Bare SPs: autocentric perspective
- ▶ The taster is the judge, typically the speaker

- (33)
- $\llbracket \text{PRO}_j \rrbracket^{c,\langle w,t,j \rangle} = j$
 - $$\begin{aligned} & \llbracket [\text{This puerh}] [\text{is tasty PRO}_j] \rrbracket^{c,\langle w,t,j \rangle} \\ &= \llbracket \text{tasty} \rrbracket^{c,\langle w,t,j \rangle} (\llbracket \text{PRO}_j \rrbracket^{c,\langle w,t,j \rangle}) (\llbracket \text{this puerh} \rrbracket^{c,\langle w,t,j \rangle}) \\ &= 1 \text{ iff this puerh tastes good to } j \text{ in } w \text{ at } t \end{aligned}$$

Stephenson (2007a,b) IV

- ▶ The availability of non-autocentric readings: pragmatics (pure pragmatics in Lasersohn 2005)
- ▶ Non-autocentric tasters: a pronominal *pro*

- (34) a. $\llbracket pro_x \rrbracket^{c,\langle w,t,j \rangle} = \text{salient individual in } c$
- b. $\llbracket [\text{This puerh}] [\text{is tasty } pro_{Pranav}] \rrbracket^{c,\langle w,t,j \rangle}$
 $= \llbracket \text{tasty} \rrbracket^{c,\langle w,t,j \rangle} (\llbracket pro_{Pr} \rrbracket^{c,\langle w,t,j \rangle}) (\llbracket \text{this puerh} \rrbracket^{c,\langle w,t,j \rangle})$
 $= 1 \text{ iff this puerh tastes good to Pranav in } w \text{ at } t$

Stephenson (2007a,b) V

- ▶ Overt tasters: *delicious for me, attractive for humans ...*
- ▶ Often used as evidence for a diadic treatment across the board (if it can be expressed overtly, it is there)

(35) a. $\llbracket \text{for} \rrbracket^{c,\langle j,w,t \rangle} = [\lambda y_e.y]$

b. $\llbracket [\text{This puerh}] [\text{is tasty for Pranav}] \rrbracket^{c,\langle w,t,j \rangle}$
 $= \llbracket \text{tasty} \rrbracket^{c,\langle w,t,j \rangle} (\llbracket \text{for Pranav} \rrbracket^{c,\langle w,t,j \rangle})$
 $\quad (\llbracket \text{this puerh} \rrbracket^{c,\langle w,t,j \rangle})$
 $= 1 \text{ iff this puerh tastes good to Pranav in } w \text{ at } t.$

Stephenson (2007a,b) VI

- ▶ Attitude reports: relativization to the attitude holder
- ▶ Attitude verbs quantify over centered worlds (cf. Lewis 1979)

- (36) a. $\text{Dox}_{w,t,x} = \{\langle w', t', y \rangle : \text{is compatible with what } x \text{ believes in } w \text{ at } t \text{ that they are } y \text{ in } w' \text{ at } t'\}$
- b. $\llbracket \text{think} \rrbracket^{c,\langle w,t,j \rangle}$
 $= \lambda p. \lambda z. \forall \langle w', t', y \rangle \in \text{Dox}_{w,t,x} : p(w')(t')(x)$

- ▶ Judges: updated with the index, no complicated machinery

- (37) a. [Pranav [thinks [[this puerh] [is delicious PRO_j]]]]
- b. $\llbracket (37\text{a}) \rrbracket^{c,\langle w,t,j \rangle} = \llbracket \text{thinks} \rrbracket^{c,\langle w,t,j \rangle}$
 $(\lambda w''. \lambda t''. \lambda j''. \llbracket \text{this puerh is delicious PRO}_j \rrbracket^{c,\langle w'', t'', j'' \rangle})$
 $(\llbracket \text{Pranav} \rrbracket^{c,\langle w,t,j \rangle})$
 $= 1 \text{ iff } \forall \langle w', t', x \rangle \in \text{Dox}_{w,t,Pranav} :$
the puerh is delicious to x in w' at t'

Stephenson (2007a,b) VII

- ▶ Epistemics: similar behavior (Hacquard 2006, 2010)
- (38) Pranav claims that there might be water on Mars.
≈ For all Pranav knows, there might be water on Mars.
- ▶ The framework handles such data in the same fashion
 - ▶ Key difference between SPs and epistemics: no overt tasters for *might* or *must*

Stephenson (2007a,b) VIII

- ▶ Full story: Day 3
 - ▶ No need for judges to explain the shift in attitudes
 - ▶ Worlds shift due to intensional quantification
 - ▶ Worlds and judges have to be bundled together due to independent constraints on worlds (Anand and Korotkova 2021)

Judge relativism: Taking stock I

- ▶ Faultless disagreement ✓
- ▶ Normative effect ☹
- ▶ Non-autocentric uses ✓
- ▶ Perspectival flexibility ✓

Judge relativism: Taking stock II

- ▶ Stephenson (2007a,b): no account of the normative effect
- ▶ Lasersohn (2005): variety of perspective
 - ▶ autocentric, judge anchored to the speaker
 - ▶ non-autocentric, judge anchored to a third party
 - ▶ acentric, no judge argument (\approx generic perspective)
- ▶ Still no explanation of the normative effect with **all** SP-claims

Judge relativism: Taking stock III

- ▶ Technical problem with Stephenson (2007a,b): overgeneration of *pro* insertion (Pearson 2013)
- (39) a. The tea that Pranav and I bought is delicious, # but I didn't like it.
- b. Pranav knows that the tea is delicious, # but I didn't like it.
- c. Pranav thinks that Natasha thinks that the tea is delicious, # but Natasha didn't like it.
- ▶ Pranav's perspective should be available (as a salient individual)
 - ▶ More problems like this: Day 3 (Anand and Korotkova 2021)

Judge relativism: Taking stock IV

Bottom line

- ▶ Judge relativism: influential framework with known problems
- ▶ What are best avenues to solve them?

Sophisticated contextualism

Soph. contextualism: Pearson (2013) I

Point of departure

First-person genericity (cf. Moltmann 2010a, 2012)

(term *sophisticated contextualism* from Coppock 2018)

Soph. contextualism: Pearson (2013) II

Key components

- ▶ SPs as Individual-Level Predicates (ILPs) (again, discussion of taste predicates rather than SPs)
- ▶ ILPs as inherently generic
- ▶ The restrictor of the generic is bound
- ▶ Fully extensional system: lambda abstractors over individuals at the left periphery of each clause (root and embedded)

SPs as individual-level I

- ▶ **Stage-Level Predicates (SLP)**: temporary properties

(40) *sick, hungry ...*

- ▶ **Individual-Level Predicates (ILP)**: permanent properties

(41) *tall, smart ...*

- ▶ Fact about language, not concepts

(42) *sick vs. infirm, drunk vs. drunkard*

SPs as individual-level III

- ▶ Based on linguistic diagnostics of the ILP vs. SLP distinction in English (Carlson 1980), SPs are individual-level
 - ▶ Modification by quantifiers

- (43) a. ✓ Natasha is always hungry. SLP
b. # Natasha is always tall. ILP
c. # Grasshoppers are always delicious. PPT

SPs as individual-level III

► Existential constructions (*there*-codas ban ILPs, Milsark 1979)

- (44) a. ✓There were people sick/hungry. SLP
b. # There were people tall. ILP
c. # There were people smart / grasshoppers delicious. SP

► Have constructions

- (45) a. ✓The zoo had three tigers sick / attacking people. SLP
b. # The zoo had three tigers big. ILP
c. # The zoo had three tigers aggressive. SP

ILPs as generic

- ▶ Genericity: a type of universal quantification, e.g. English bare plurals or simple present (classic reference: Carlson and Pelletier 1995)

(46) Birds can fly. \approx All birds can fly.

- ▶ Chierchia (1995): all ILPs are generic (though see Czypionka and Lauer 2017)

(47) a. Jane is tall.

b. LF: [Jane; [GEN [t_i; is tall]]]

- ▶ Pearson (2013): SPs are also generic

(48) a. Puerh is delicious.

b. LF: [Puerh; [GEN [t_i; is delicious]]]

- ▶ Other ways of deriving genericity of PPTs (Bhatt and Pancheva 1998; Keshet 2005; Anand 2009; Moltmann 2010a, 2012)

First-person orientation I

- ▶ The speaker's taste typically matter

(49) The tea is delicious, # but I don't like it.

- ▶ Non-autocentric readings: easier with a different species
- ▶ Pearson (2013): the speaker emphasizes with contextually salient tasters
- ▶ *Identify with* relation *I* to the restrictor of the generic

(50) $I(y,x,w)$ iff *y* identifies with *x* in *w*

First-person orientation II

- ▶ Lambda abstractors at the left periphery of each clause
- ▶ Individual variables must be bound by the closest possible binder (cf. Percus (2000); Anand (2006); Hacquard (2010) for similar constraints)

- (51) a. **Root position:**
[$\lambda_1 \lambda_2 w_2 \dots$ GEN [... SP [$I(y_1, x_4, w_2)$]]]
- b. **Embedded position:**
[$\lambda_1 \lambda_2 w_2 \dots$
[$\lambda_{21} \lambda_{22} w_{22} \dots$ GEN [... SP [$I(y_{21}, x_4, w_{22})$]]]]

The mechanics I

- ▶ Putting moving parts together

(52) a. The puerh is delicious.

b. LF:

$\lambda_1 \lambda_2 w_2 \text{ puerh } \lambda_{10}$

[GEN $\lambda_3 w_3$ [t_{10} is delicious $I(y_1, x_4, w_2)$]]

c. $\llbracket (52b) \rrbracket^{c,g}$

$= \lambda y_1 \lambda w_2. \text{GEN}_{x_4, w_3} [y_1 \text{ identifies with } x_4 \text{ in } w_2 \rightarrow$
 $\text{puerh is delicious to } x_4 \text{ in } w_3]$

- ▶ Embedded clauses work the same way [type the derivation for

Pranav thinks that the puerh is delicious in case you want to give it a try]

The mechanics II

- ▶ Faultless disagreement: dispute about domain of the generic
 - ▶ Non-autocentric perspective: the speaker excluded from the domain of the generic when irrelevant
- (53) Rotten flesh is delicious.
The speaker is not the target taster

Pearson (2013): Taking stock

- ▶ Faultless disagreement ✓
- ▶ Normative effect ✓
- ▶ Non-autocentric uses ✓
- ▶ Perspectival flexibility ?/✓

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Judge-free frameworks

Refining worlds: Coppock (2018) I

- ▶ For Lasersohn, judges are entities that are bundled with worlds in the index (as happens with the coordinates of the context)
- ▶ Coppock (2018): “judges” should be thought of as different ways of resolving standards (like resolving vagueness)
- ▶ The cornerstone of the theory are *outlooks*, ways of precisifying all vagueness and implicit standards, including judges for SPs
- ▶ outlooks are thus analogous to precisifications in theories of vagueness

Refining worlds: Coppock (2018) II

- ▶ outlook-based model tuples contain coordinates for
 - ▶ W : set of possible worlds
 - ▶ Ω : set of outlooks, with a unique partition O
 - ▶ ∞ : bijective function from W to O
- ▶ an *outlook* o is a **refinement** for world w iff $o \in \infty(w)$

Refining worlds: Coppock (2018) III

- ▶ all notions of truth are sensitive to outlooks, not worlds
 - ▶ propositions are sets of outlooks
 - ▶ p is **objective** iff every world's refinements agree on p
 $(\forall w \in W \forall o, o' \in \infty(w))((o \in p \wedge o' \in p) \vee (o \notin p \wedge o' \notin p))$
 - ▶ p is **discretionary** iff at least one world's refinements do **not** agree on p
 $(\exists w \in W \exists o, o' \in \infty(w))((o \in p \wedge o' \notin p) \vee (o \notin p \wedge o' \in p))$
 - ▶ p is **strongly discretionary** iff **no** world's refinements agree on p
 $(\forall w \in W \exists o, o' \in \infty(w))((o \in p \wedge o' \notin p) \vee (o \notin p \wedge o' \in p))$
 - ▶ subjective attitudes like *find* require their complements to be strongly discretionary