How to do things with words 4: Performative verbs and imperatives

Regine Eckardt & Magdalena Schwager University of Göttingen

ESSLLI 2009, Bordeaux

Regine Eckardt & Magdalena Schwager University of Göttinger How to do things with words 4: Performative verbs and impera

.

Regine Eckardt & Magdalena Schwager University of Göttinger How to do things with words 4: Performative verbs and impera

・ロン ・四シ ・ヨン ・ヨン 三日

Outline

Regine Eckardt & Magdalena Schwager University of Göttinger How to do things with words 4: Performative verbs and impera

・ロン ・回 と ・ ヨ ・ ・ ヨ ・ ・

3

- explicit performatives constrain what are considered possible futures (context set)
 - (1) I promise to stop talking about 'promise'.

technically crucial: propositions; true/false of worlds in the (old) context set

A B K A B K

- explicit performatives constrain what are considered possible futures (context set)
 - (1) I promise to stop talking about 'promise'.

technically crucial: propositions; true/false of worlds in the (old) context set

• implicit performatives:

(2) a. You must stay for the next week.

performative modal

b. Stay for the next week. imperative

- explicit performatives constrain what are considered possible futures (context set)
 - (1) I promise to stop talking about 'promise'.

technically crucial: propositions; true/false of worlds in the (old) context set

• implicit performatives:

(2) a. You must stay for the next week.

performative modal

向下 イヨト イヨト

- b. Stay for the next week. imperative
- similar to I order/request you to...

- explicit performatives constrain what are considered possible futures (context set)
 - (1) I promise to stop talking about 'promise'.

technically crucial: propositions; true/false of worlds in the (old) context set

• implicit performatives:

(2) a. You must stay for the next week.

performative modal

向下 イヨト イヨト

b. Stay for the next week.

imperative

- similar to I order/request you to...
- o do they express propositions?

- explicit performatives constrain what are considered possible futures (context set)
 - (1) I promise to stop talking about 'promise'.

technically crucial: propositions; true/false of worlds in the (old) context set

• implicit performatives:

(2) a. You must stay for the next week.

performative modal

b. Stay for the next week.

imperative

- similar to I order/request you to...
- do they express propositions?
- relation to descriptive modal statements?
 - (3) Sarah has to stay for the next week.

Outline

Regine Eckardt & Magdalena Schwager University of Göttinger How to do things with words 4: Performative verbs and impera

・ロン ・回 と ・ ヨ ・ ・ ヨ ・ ・

3

descriptive

(4) (2) (4) (2) (4)

- (4) a. You need to pay taxes for this (as far as I know).
 - b. Peter may come tomorrow (the hostess said: no problem).

Modal verbs: change obligations performative

- (5) a. You need to pay taxes for this.
 - b. Okay, you may come at 11. (Are you content now?)

descriptive

伺下 イヨト イヨト

- (4) a. You need to pay taxes for this (as far as I know).
 - b. Peter may come tomorrow (the hostess said: no problem).

Modal verbs: change obligations performative

- (5) a. You need to pay taxes for this.
 - b. Okay, you may come at 11. (Are you content now?)

Truth values?

descriptive

- (4) a. You need to pay taxes for this (as far as I know). 'That's not true!'
 - b. Peter may come tomorrow (the hostess said: no problem).
 'That's not true!'

Modal verbs: change obligations

performative

A B K A B K

- (5) a. You need to pay taxes for this.
 - b. Okay, you may come at 11. (Are you content now?)

Truth values?

descriptive

- (4) a. You need to pay taxes for this (as far as I know). 'That's not true!'
 - b. Peter may come tomorrow (the hostess said: no problem).
 'That's not true!'

Modal verbs: change obligations

performative

向下 イヨト イヨト

- (5) a. You need to pay taxes for this. # 'That's not true!'
 - b. Okay, you may come at 11. (Are you content now?) # 'That's not true!'

Truth values?

descriptive

- (4) a. You need to pay taxes for this (as far as I know). 'That's not true!'
 - b. Peter may come tomorrow (the hostess said: no problem).
 'That's not true!'

Modal verbs: change obligations

performative

- (5) a. You need to pay taxes for this. # 'That's not true!'
 - b. Okay, you may come at 11. (Are you content now?) # 'That's not true!'

Truth values?

(Performative/descriptive as [+/-change] will be revisited later.)

Lewis (1979) A problem about permission:

- any utterance context determines:
 - context set (doxastically possible future courses of events, cf. Stalnaker 1978)
 - permissibily sphere *PS* (deontically possible future courses of events)

A B K A B K

Lewis (1979) A problem about permission:

- any utterance context determines:
 - context set (doxastically possible future courses of events, cf. Stalnaker 1978)
 - permissibily sphere *PS* (deontically possible future courses of events)
- performative modals (and imperatives) are part of a language game (master & slave) that modifies the permissibility sphere

向下 イヨト イヨト

Lewis (1979) A problem about permission:

- any utterance context determines:
 - context set (doxastically possible future courses of events, cf. Stalnaker 1978)
 - permissibily sphere *PS* (deontically possible future courses of events)
- performative modals (and imperatives) are part of a language game (master & slave) that modifies the permissibility sphere
- must constrains the sphere (unproblematic)

・ 回 と ・ ヨ と ・ ・ ヨ と …

Lewis (1979) A problem about permission:

- any utterance context determines:
 - context set (doxastically possible future courses of events, cf. Stalnaker 1978)
 - permissibily sphere *PS* (deontically possible future courses of events)
- performative modals (and imperatives) are part of a language game (master & slave) that modifies the permissibility sphere
- must constrains the sphere (unproblematic)
- *may* enlargens the sphere how? (= problem about permission)

- 本部 とくき とくき とうき

set aside: matter of questions under discussion; Ginzburg 1995

Regine Eckardt & Magdalena Schwager University of Göttinger How to do things with words 4: Performative verbs and impera

回 と く ヨ と く ヨ と

Split representation theories:

(i) To model utterance context, we need a different storage site for deontic (preference related) information.

commitment slate: Hamblin permissibility sphere: Lewis 1979, van Rooy 2000 To Do List: Portner 2004, 2007 (*ii*) Certain linguistic expressions are specified to update the deontic storage site directly. Split representation theories:

(i) To model utterance context, we need a different storage site for deontic (preference related) information.

commitment slate: Hamblin

permissibility sphere: Lewis 1979, van Rooy 2000

To Do List: Portner 2004, 2007

・ 同 ト ・ ヨ ト ・ ヨ ト

(*ii*) Certain linguistic expressions are specified to update the deontic storage site directly.

- performative sentences need not work via CB-update they need not express propositions (✓ automatic update, ✓ #true/false)
- logical connective can behave differently (free choice effects)
- needed: link CB & deontic sphere (so far: only Portner 2007)

Unified representation theories:

(i) Deontic information is modal information about the worlds in the context set.

(*ii*) Deontic information cannot be modified directly, but works via elemination of worlds from the context set that have different modal properties.

4 B 6 4 B 6

Unified representation theories:

(i) Deontic information is modal information about the worlds in the context set.

(*ii*) Deontic information cannot be modified directly, but works via elemination of worlds from the context set that have different modal properties.

- performative sentences express propositions; we need a pragmatic story for #true/false, automatic update
- explicit performatives: #true/false, yet: corresponding spheres? *I hereby oder/advice/congratulate/...you...*
- most linguistic items do double duty
- modal information is 'stored' for all of W in accessibility relations R of all flavors (simplified, $R \subseteq W \times W$)

・ 同 ト ・ ヨ ト ・ ヨ ト

Unified representation theories:

(i) Deontic information is modal information about the worlds in the context set.

(*ii*) Deontic information cannot be modified directly, but works via elemination of worlds from the context set that have different modal properties.

- performative sentences express propositions; we need a pragmatic story for #true/false, automatic update
- explicit performatives: #true/false, yet: corresponding spheres? *I hereby oder/advice/congratulate/...you...*
- most linguistic items do double duty
- modal information is 'stored' for all of W in accessibility relations R of all flavors (simplified, $R \subseteq W \times W$)

I am a die-hard unified representationalist.

Performative vs. descriptive: semantically the same?

'performative modals: free choice effects, descriptive: no' (Kamp 1973)

- You can ask Cécile, or you can email to Elena! performative
 ⇒ 'both are options' (FC)
- (8) You can ask Cécile, or you can email to Elena (I forgot which). descriptive \Rightarrow 'one's an option, I don't know which' (no FC)

But: descriptive + FC, performative without FC (Kamp 1978, Schulz 2003)

伺い イヨト イヨト ニヨ

Performative vs. descriptive: semantically the same?

'performative modals: free choice effects, descriptive: no' (Kamp 1973)

- (7) You can ask Cécile, or you can email to Elena! performative \Rightarrow 'both are options' (FC)
- (8) You can ask Cécile, or you can email to Elena (I forgot which). descriptive \Rightarrow 'one's an option, I don't know which' (no FC)

But: descriptive + FC, performative without FC (Kamp 1978, Schulz 2003)

(9) I checked the rules for paying your ticket. You can pay online or you can pay at the police station. descriptive, Portner (p.c.)
 ⇒ 'both are options' (FC)

Performative vs. descriptive: semantically the same?

'performative modals: free choice effects, descriptive: no' (Kamp 1973)

- (7) You can ask Cécile, or you can email to Elena! performative \Rightarrow 'both are options' (FC)
- (8) You can ask Cécile, or you can email to Elena (I forgot which). descriptive \Rightarrow 'one's an option, I don't know which' (no FC)

But: descriptive + FC, performative without FC (Kamp 1978, Schulz 2003)

(9) You may go to Shoal Creek, or you may go to Shingle Creek, but stay away from the dangerous one. performative, Kamp 1978

 \Rightarrow 'one's an option, I don't know which' (no FC)

'performative modals do not enter the recursive meaning component' - or: an effect that only surfaces in main clauses

御 と く ヨ と く ヨ と …

'performative modals do not enter the recursive meaning component' - or: an effect that only surfaces in main clauses English *must* is always performative in main clauses...

(10) You must do the shopping today (#as far as I know).

... and in subordinate clauses, it behaves like a descriptive modal Ninan 2005.

(11) Since John must go to confession, he should find a church soon.

Assumption 1:

The distinction between performative and descriptive modal verbs is pragmatic.

Regine Eckardt & Magdalena Schwager University of Göttinger How to do things with words 4: Performative verbs and impera

・ロン ・回 と ・ ヨ と ・ ヨ と

э

Performative does not require change (COMMAND, PERMISSION):

• Portner (2009:136): I refer to a modal as PERFORMATIVE if, by virtue of its conventional meaning, it causes the utterance of a declarative sentence to perform a speech act in addition to, or instead of, the act of assertion which is normally associated with declarative clauses.

伺下 イヨト イヨト

Performative does not require change (COMMAND, PERMISSION):

• Portner (2009:136): I refer to a modal as PERFORMATIVE if, by virtue of its conventional meaning, it causes the utterance of a declarative sentence to perform a speech act in addition to, or instead of, the act of assertion which is normally associated with declarative clauses.

伺下 イヨト イヨト

Performative does not require change (COMMAND, PERMISSION):

- Portner (2009:136): I refer to a modal as PERFORMATIVE if, by virtue of its conventional meaning, it causes the utterance of a declarative sentence to perform a speech act in addition to, or instead of, the act of assertion which is normally associated with declarative clauses.
- semantically uniform approach → token distinction; performative if it occurs in an utterance of a declarative sentence that performs
- *must* in the absence of change:
 - (12) A: How do I get to Harlem?
 - B: You must take the A-train. It's the only possibility.

・ 回 ・ ・ ヨ ・ ・ ヨ ・

Performative does not require change (COMMAND, PERMISSION):

- Portner (2009:136): I refer to a modal as PERFORMATIVE if, by virtue of its conventional meaning, it causes the utterance of a declarative sentence to perform a speech act in addition to, or instead of, the act of assertion which is normally associated with declarative clauses.
- semantically uniform approach → token distinction; performative if it occurs in an utterance of a declarative sentence that performs
- *must* in the absence of change:
 - (12) You must pray every day.

priest informs of standing obligation (Portner 2007)

(1日) (日) (日)

Performative does not require change (COMMAND, PERMISSION):

- Portner (2009:136): I refer to a modal as PERFORMATIVE if, by virtue of its conventional meaning, it causes the utterance of a declarative sentence to perform a speech act in addition to, or instead of, the act of assertion which is normally associated with declarative clauses.
- semantically uniform approach → token distinction; performative if it occurs in an utterance of a declarative sentence that performs
- *must* in the absence of change:
 - (12) You must pray every day.

priest informs of standing obligation (Portner 2007)

・ロト ・回ト ・ヨト ・ヨト

• no change-examples don't allow for *that's not true*-replies either (tests: non assertive)

Outline

Regine Eckardt & Magdalena Schwager University of Göttinger How to do things with words 4: Performative verbs and impera

・ロン ・回 と ・ ヨ ・ ・ ヨ ・ ・

3

Semantic interpretation of modal verbs

- adopt standard semantics for modal verbs (Lewis 1973, van Fraassen 1973; Kratzer 1978, 1991) context dependence in 'flavor':
 - (13) a. She has to be in her office. (given what we know)
 - b. You have to close the door. (given my orders)
 - c. You have to go to the pub. (given your wishes, and what the possibilities are)

白 と く ヨ と く ヨ と …

Semantic interpretation of modal verbs

- adopt standard semantics for modal verbs (Lewis 1973, van Fraassen 1973; Kratzer 1978, 1991) context dependence in 'flavor':
 - (13) a. She has to be in her office. (given what we know)
 - b. You have to close the door. (given my orders)
 - c. You have to go to the pub. (given your wishes, and what the possibilities are)

回 と く ヨ と く ヨ と

An update with a modalized declarative can give rise to an effect on the context set that is to be classified as some speech act other than ASSERTION - 'performative modal'.

Semantic interpretation of modal verbs

- adopt standard semantics for modal verbs (Lewis 1973, van Fraassen 1973; Kratzer 1978, 1991) context dependence in 'flavor':
 - (13) a. She has to be in her office. (given what we know)
 - b. You have to close the door. (given my orders)
 - c. You have to go to the pub. (given your wishes, and what the possibilities are)
- An update with a modalized declarative can give rise to an effect on the context set that is to be classified as some speech act other than ASSERTION 'performative modal'.
- The standard semantics for modal verbs allows to specify under what conditions modal verbs behave performatively. We will only come back to this in connection with imperatives.

個人 くほん くほん しほ

 $\llbracket [must/may [you go]] \rrbracket^{c,w} = 1 \text{ iff all/some of a set of possible worlds}$ *M* verify the proposition you go. prejacent

回り くほり くほり 一日

 $\llbracket [must/may [you go]] \rrbracket^{c,w} = 1 \text{ iff all/some of a set of possible worlds}$ *M* verify the proposition you go. prejacent

M =? - Depends on two contextual parameters:

・吊り ・ヨン ・ヨン ・ヨ

 $\llbracket [[must/may [you go]] \rrbracket^{c,w} = 1 \text{ iff all/some of a set of possible worlds} \\ M \text{ verify the proposition you go.} \\ M = ? - Depends on two contextual parameters:}$

• a modal base *f* establishes which worlds are to be considered in principle

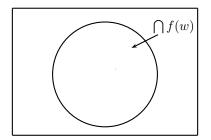
 $\llbracket [must/may [you go]] \rrbracket^{c,w} = 1 \text{ iff all/some of a set of possible worlds}$ M verify the proposition you go. prejacent M = ? - Depends on two contextual parameters:

• a modal base *f* establishes which worlds are to be considered in principle

f... the circumstances $f(w) = \{no \ coffee \ in \ here, you're \ very \ tired,...\}$

 $\llbracket [must/may [you go]] \rrbracket^{c,w} = 1 \text{ iff all/some of a set of possible worlds}$ M verify the proposition you go. prejacent M = ? - Depends on two contextual parameters:

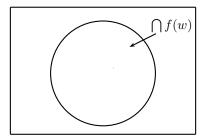
• a modal base *f* establishes which worlds are to be considered in principle



f... the circumstances $f(w) = \{no \ coffee \ in \ here, you're \ very \ tired,...\}$

 $\llbracket [[must/may [you go]] \rrbracket^{c,w} = 1 \text{ iff all/some of a set of possible worlds} \\ M \text{ verify the proposition you go.} \\ M = ? - Depends on two contextual parameters:}$

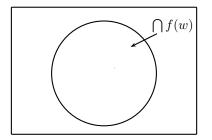
- a modal base *f* establishes which worlds are to be considered in principle
- ${\ensuremath{\, \bullet }}$ an ordering source g picks out the optimal ones among them



f... the circumstances $f(w) = \{no \ coffee \ in \ here, you're \ very \ tired,...\}$

 $\llbracket [[must/may [you go]] \rrbracket^{c,w} = 1 \text{ iff all/some of a set of possible worlds} \\ M \text{ verify the proposition you go.} \\ M = ? - Depends on two contextual parameters:}$

- a modal base *f* establishes which worlds are to be considered in principle
- ${\ensuremath{\, \bullet }}$ an ordering source g picks out the optimal ones among them

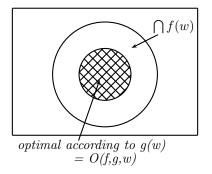


f... the circumstances $f(w) = {no coffee in here,$ $you're very tired,...}$ g... my wishes $g(w) = {you have a coffee,$ you listen to me, you don't fall $asleep}$

・吊り ・ヨト ・ヨト ・ヨ

 $\llbracket [[must/may [you go]] \rrbracket^{c,w} = 1 \text{ iff all/some of a set of possible worlds} \\ M \text{ verify the proposition you go.} \\ M = ? - Depends on two contextual parameters:}$

- a modal base *f* establishes which worlds are to be considered in principle
- ${\ensuremath{\, \bullet }}$ an ordering source g picks out the optimal ones among them



f... the circumstances $f(w) = \{no \ coffee \ in \ here, you're \ very \ tired,...\}$ g... my wishes $g(w) = \{you \ have \ a \ coffee, you \ listen \ to \ me, you \ don't \ fall \ asleep\}$

イロト イポト イヨト イヨト

回 と く ヨ と く ヨ と

The set of worlds in $\bigcap f(w)$ that are optimal according to g(w): (under Limit Assumption)

回 と く ヨ と く ヨ と

The set of worlds in $\bigcap f(w)$ that are optimal according to g(w): (under Limit Assumption)

(14)
$$z <_{g(w)} v \text{ iff}$$

 $\{p: p \in g(w) \& v \in p\} \subset \{p: p \in g(w) \& z \in p\}$

回 と く ヨ と く ヨ と

The set of worlds in $\bigcap f(w)$ that are optimal according to g(w): (under Limit Assumption)

(14)
$$z <_{g(w)} v \text{ iff}$$

 $\{p : p \in g(w) \& v \in p\} \subset \{p : p \in g(w) \& z \in p\}$
(15) $O(f, g, w) := \{v \in \bigcap f(w) | \neg \exists z \in \bigcap f(w) : z <_{g(w)} v\}$

回 と く ヨ と く ヨ と …

The set of worlds in $\bigcap f(w)$ that are optimal according to g(w): (under Limit Assumption)

(14)
$$z <_{g(w)} v \text{ iff}$$

 $\{p : p \in g(w) \& v \in p\} \subset \{p : p \in g(w) \& z \in p\}$
(15) $O(f, g, w) := \{v \in \bigcap f(w) | \neg \exists z \in \bigcap f(w) : z <_{g(w)} v\}$

contextual parameters: arguments of the modal, introduced by silent pronouns von Fintel & latridou 2004

回 と く ヨ と く ヨ と …

The set of worlds in $\bigcap f(w)$ that are optimal according to g(w): (under Limit Assumption)

(14)
$$z <_{g(w)} v \text{ iff}$$

 $\{p : p \in g(w) \& v \in p\} \subset \{p : p \in g(w) \& z \in p\}$
(15) $O(f, g, w) := \{v \in \bigcap f(w) | \neg \exists z \in \bigcap f(w) : z <_{g(w)} v\}$

contextual parameters: arguments of the modal, introduced by silent pronouns von Fintel & latridou 2004

(16) a.
$$\llbracket must \rrbracket^{c,w} = \lambda f \lambda g \lambda p_{st} \lambda w. \forall w' \in O(f,g,w) : p(w').$$

b. $\llbracket may \rrbracket^{c,w} = \lambda f \lambda g \lambda p_{st} \lambda w. \exists w' \in O(f,g,w) : p(w').$

回 と く ヨ と く ヨ と …

The set of worlds in $\bigcap f(w)$ that are optimal according to g(w): (under Limit Assumption)

(14)
$$z <_{g(w)} v \text{ iff}$$

 $\{p : p \in g(w) \& v \in p\} \subset \{p : p \in g(w) \& z \in p\}$
(15) $O(f, g, w) := \{v \in \bigcap f(w) | \neg \exists z \in \bigcap f(w) : z <_{g(w)} v\}$

contextual parameters: arguments of the modal, introduced by silent pronouns von Fintel & latridou 2004

(16) a.
$$\llbracket must \rrbracket^{c,w} = \lambda f \lambda g \lambda p_{st} \lambda w. \forall w' \in O(f,g,w) : p(w').$$

b. $\llbracket may \rrbracket^{c,w} = \lambda f \lambda g \lambda p_{st} \lambda w. \exists w' \in O(f,g,w) : p(w').$
(17) $\llbracket you may go home \rrbracket^{c,w} = \lambda w. \exists w' \in O(f,g,w) : p(w').$

The set of worlds in $\bigcap f(w)$ that are optimal according to g(w): (under Limit Assumption)

(14)
$$z <_{g(w)} v \text{ iff}$$

 $\{p : p \in g(w) \& v \in p\} \subset \{p : p \in g(w) \& z \in p\}$
(15) $O(f, g, w) := \{v \in \bigcap f(w) | \neg \exists z \in \bigcap f(w) : z <_{g(w)} v\}$

contextual parameters: arguments of the modal, introduced by silent pronouns von Fintel & latridou 2004

(16) a.
$$\llbracket must \rrbracket^{c,w} = \lambda f \lambda g \lambda p_{st} \lambda w. \forall w' \in O(f,g,w) : p(w').$$

b. $\llbracket may \rrbracket^{c,w} = \lambda f \lambda g \lambda p_{st} \lambda w. \exists w' \in O(f,g,w) : p(w').$
(17) $\llbracket you may go home \rrbracket^{c,w} = \lambda w. \exists w' \in O(f,g,w) : p(w').$

Modalized propositions can inform about what w is like with respect to f(w), or about g(w), or about both.

(18) The colonel ordered the private to wash the dishes. \Rightarrow The private has to wash the dishes.

according to an ordering g = the colonel's orders

伺下 イヨト イヨト

(18) The colonel ordered the private to wash the dishes. \Rightarrow The private has to wash the dishes.

according to an ordering g = the colonel's orders

.

for all w, t, x, g = the colonel's orders: $p \in g(w, t) \Leftrightarrow \exists e[\tau(e) \leq t \land (felicitous(order))(colonel, x, p, e)(w)]$

(18) The colonel ordered the private to wash the dishes. \Rightarrow The private has to wash the dishes.

according to an ordering $g = the \ colonel's \ orders$

マボン イラン イラン 一戸

for all w, t, x, g = the colonel's orders: $p \in g(w, t) \Leftrightarrow \exists e[\tau(e) \leq t \land (felicitous(order))(colonel, x, p, e)(w)]$

 $\mathsf{ORDER}(a, b, p, e)(w) \Leftrightarrow \mathsf{UTT}(a, e) \land \mathsf{CAUSE}(e, \lambda w. \forall w'[w' \sim_{\tau(e)} w$

 $\rightarrow [p(w') \lor [\neg p(w') \land \mathsf{sanctioned}(b)(w')] \lor \mathsf{sth.different}(w')]])$

sth.different(w') \Leftrightarrow external disaster(w') $\lor x$ affected in w' $\lor \neg$ authority-over(a, b)(w') $\lor \ldots$

(18) The colonel ordered the private to wash the dishes. \Rightarrow The private has to wash the dishes.

according to an ordering $g = the \ colonel's \ orders$

for all w, t, x, g = the colonel's orders: $p \in g(w, t) \Leftrightarrow \exists e[\tau(e) \leq t \land (felicitous(order))(colonel, x, p, e)(w)]$

 $\mathsf{ORDER}(a, b, p, e)(w) \Leftrightarrow \mathsf{UTT}(a, e) \land \mathsf{CAUSE}(e, \lambda w. \forall w'[w' \sim_{\tau(e)} w) \\ \rightarrow [p(w') \lor [\neg p(w') \land \mathsf{sanctioned}(b)(w')] \lor \mathsf{sth.different}(w')])$

 $\mathsf{sth.different}(w') \Leftrightarrow \mathsf{external} \; \mathsf{disaster}(w') \lor x \; \mathsf{affected} \; \mathsf{in} \; w' \lor y$

 \neg authority-over $(a, b)(w') \lor \ldots$

イロン イボン イヨン イヨン 三日

(19) The private ordered the colonel to wash the dishes. \Rightarrow The colonel has to wash the dishes.

according to an ordering g = the private's orders

(18) The colonel ordered the private to wash the dishes. \Rightarrow The private has to wash the dishes.

according to an ordering g = the colonel's orders

for all w, t, x, g = the colonel's orders: $p \in g(w, t) \Leftrightarrow \exists e[\tau(e) \leq t \land (felicitous(order))(colonel, x, p, e)(w)]$

 $\mathsf{ORDER}(a, b, p, e)(w) \Leftrightarrow \mathsf{UTT}(a, e) \land \mathsf{CAUSE}(e, \lambda w. \forall w'[w' \sim_{\tau(e)} w$

 $\rightarrow [p(w') \lor [\neg p(w') \land \mathsf{sanctioned}(b)(w')] \lor \mathsf{sth.different}(w')]])$

 $\mathsf{sth.different}(w') \Leftrightarrow \mathsf{external} \; \mathsf{disaster}(w') \lor x \; \mathsf{affected} \; \mathsf{in} \; w' \lor \\$

 \neg authority-over $(a, b)(w') \lor \ldots$

(19) The private ordered the colonel to wash the dishes. \Rightarrow The colonel has to wash the dishes.

according to an ordering g = the private's orders(felicitous(ORDER)) $(a, b, p, e)(w) \Leftrightarrow ORDER(a, b, p, e)(w) \land$

authority-over(a, b)(w)

Outline

Regine Eckardt & Magdalena Schwager University of Göttinger How to do things with words 4: Performative verbs and impera

・ロン ・回 と ・ ヨ ・ ・ ヨ ・ ・

3

Clause types (sentential moods, Sadock & Zwicky 1985):

(20) a. You are nice to Auntie. declarative
b. Are you nice to Auntie? interrogative
c. Be nice to Auntie! imperative
d. ... exclamatives,... (?)

回 と く ヨ と く ヨ と

3

Clause types (sentential moods, Sadock & Zwicky 1985):

(20)	a.	You are nice to Auntie.	declarative
	b.	Are you nice to Auntie?	interrogative
	с.	Be nice to Auntie!	imperative
	d.		exclamatives, (?)

For a particular language: main clauses grouped together w.r.t morphosyntactic properties, labelled according to what is their prototypical usage.

伺下 イヨト イヨト

Clause types (sentential moods, Sadock & Zwicky 1985):

(20)	a.	You are nice to Auntie.	declarative
	b.	Are you nice to Auntie?	interrogative
	с.	Be nice to Auntie!	imperative
	d.		exclamatives, (?)

For a particular language: main clauses grouped together w.r.t morphosyntactic properties, labelled according to what is their prototypical usage.

- declarative ASSERTION
- interrogative QUESTION
- imperative ORDER

伺 と く き と く き とう

• Close the door!

Donhauser 1986, Davies 1986

(1日) (日) (日)

3

Order

- Close the door!
- Please call me!

Donhauser 1986, Davies 1986

・ 回 と ・ ヨ と ・ ヨ と …

3

Order Request

- Close the door!
- Please call me!
- Take a taxi.

Donhauser 1986, Davies 1986

御 と く ヨ と く ヨ と …

3

Order Request Advice

• Close the door!	Order
• Please call me!	Request
 Take a taxi. 	Advice
• Have fun at the party!	WISH

Regine Eckardt & Magdalena Schwager University of Göttinger How to do things with words 4: Performative verbs and impera

Donhauser 1986, Davies 1986

< ロ > < 回 > < 回 > < 回 > < 回 > <

3

• Close the door!	Order
• Please call me!	Request
• Take a taxi.	Advice
 Have fun at the party! 	WISH
 Stay away from the projector. 	WARNING

Regine Eckardt & Magdalena Schwager University of Göttinger How to do things with words 4: Performative verbs and impera

Donhauser 1986, Davies 1986

▲圖 ▶ ▲ 国 ▶ ▲ 国 ▶

æ

- Close the door!
- Please call me!
- Take a taxi.
- Have fun at the party!
- Stay away from the projector.
- Please be rich and intelligent!

Order Request Advice Wish Warning Silent Wish

Regine Eckardt & Magdalena Schwager University of Göttinger How to do things with words 4: Performative verbs and impera

Donhauser 1986, Davies 1986

< ∃ >

- Close the door!
- Please call me!
- Take a taxi.
- Have fun at the party!
- Stay away from the projector.
- Please be rich and intelligent!
- Come earlier (if you like).

Donhauser 1986, Davies 1986

Order Request Advice Wish Warning Silent Wish Permission

< ≣⇒

- Close the door!
- Please call me!
- Take a taxi.
- Have fun at the party!
- Stay away from the projector.
- Please be rich and intelligent!
- Come earlier (if you like).
- Nimm zum Beispiel ein Taxi. take a cab for example

Order Request Advice Wish Warning Silent Wish Permission non-exhaustive-Advice

Donhauser 1986, Davies 1986

- Close the door!
 Please call me!
 Take a taxi.
 Have fun at the party!
 Stay away from the projector.
 Please be rich and intelligent!
 Come earlier (if you like).
 Nimm zum Beispiel ein Taxi. take a cab for example
- Ok, then don't come!

Order Request Advice Wish Warning Silent Wish Permission *non-exhaustive*-Advice

CONCESSION

Donhauser 1986, Davies 1986

Spectrum of use Close

• Close the door!	Order
• Please call me!	Request
• Take a taxi.	Advice
• Have fun at the party!	WISH
 Stay away from the projector. 	WARNING
Please be rich and intelligent!	SILENT WISH
 Come earlier (if you like). 	PERMISSION
• Nimm zum Beispiel ein Taxi. n	non-exhaustive-Advice
take a cab for example	
• Ok, then don't come!	Concession
Re one minute late and they won't let y	you in Cond Ant

Be one minute late and they won't let you in! Cond.Ant.

Regine Eckardt & Magdalena Schwager University of Göttinger How to do things with words 4: Performative verbs and imperative

Donhauser 1986, Davies 1986

(4回) (日) (日)

3

• Close the door!	Order
Please call me!	Request
 Take a taxi. 	Advice
• Have fun at the party!	WISH
 Stay away from the projector. 	WARNING
Please be rich and intelligent!	SILENT WISH
 Come earlier (if you like). 	Permission
 Nimm zum Beispiel ein Taxi. 	non-exhaustive-Advice
take a cab for example	
• Ok, then don't come!	CONCESSION
• Be one minute late and they won't let	t you in! Cond.Ant.
• Come in time or you'll miss the first s	lot! Advice

Donhauser 1986, Davies 1986

・ 回 ト ・ ヨ ト ・ ヨ ト

• Close the door!	Order
• Please call me!	Request
• Take a taxi.	Advice
• Have fun at the party!	WISH
 Stay away from the projector. 	WARNING
• Please be rich and intelligent!	SILENT WISH
• Come earlier (if you like).	PERMISSION
 Nimm zum Beispiel ein Taxi. 	-exhaustive-Advice
take a cab for example	
• Ok, then don't come!	CONCESSION
 Be one minute late and they won't let you 	<i>in!</i> Cond.Ant.
• Come in time or you'll miss the first slot!	Advice
Please don't have broken another vase!	WISH

Donhauser 1986, Davies 1986

< 日 > < 四 > < 回 > < 回 > < 回 > <

3

٩	Close the door!	Order
٩	Please call me!	Request
٩	Take a taxi.	Advice
٩	Have fun at the party!	WISH
٩	Stay away from the projector.	WARNING
٩	Please be rich and intelligent!	Silent Wish
٩	Come earlier (if you like).	PERMISSION
٩	Nimm zum Beispiel ein Taxi.	non-exhaustive-Advice
	take a cab for example	
٩	Ok, then don't come!	CONCESSION
٩	Be one minute late and they won't let	<i>t you in!</i> Cond.Ant.
٩	• Come in time or you'll miss the first slot! ADVICE	
٩	Please don't have broken another vas	e! WISH
٩	Werd mal selbst von einem Haifisch g	ebissen! ?
	be bitten by a shark yourself (before you talk like this)	

Donhauser 1986, Davies 1986

Regine Eckardt & Magdalena Schwager University of Göttinger How to do things with words 4: Performative verbs and impera

Close the door!	Order
Please call me!	Request
 Take a taxi. 	Advice
• Have fun at the party!	Wish
Stay away from the projector.	WARNING
Please be rich and intelligent!	Silent Wish
 Come earlier (if you like). 	PERMISSION
 Nimm zum Beispiel ein Taxi. 	non-exhaustive-ADVICE
take a cab for example	
• Ok, then don't come!	Concession
 Be one minute late and they won't let 	<i>you in!</i> Cond.Ant.
Come in time or you'll miss the first slope	ot! ADVICE
Please don't have broken another vases	WISH
• Werd mal selbst von einem Haifisch gebissen! ?	
be bitten by a shark yourself (before you ta	alk like this)
Surprising:	< ロ > < 同 > < 目 > < 目 > = = = = = = = = = = = = = = = = = =

Donhauser 1986, Davies 1986

Regine Eckardt & Magdalena Schwager University of Göttinger How to do things with words 4: Performative verbs and impera

• Close the door!	Order	
• Please call me!	Request	
 Take a taxi. 	Advice	
• Have fun at the party!	WISH	
 Stay away from the projector. 	WARNING	
• Please be rich and intelligent!	SILENT WISH	
 Come earlier (if you like). 	PERMISSION	
 Nimm zum Beispiel ein Taxi. 	exhaustive-Advice	
take a cab for example		
• Ok, then don't come!	CONCESSION	
• Be one minute late and they won't let you	<i>in!</i> Cond.Ant.	
• Come in time or you'll miss the first slot!	Advice	
Please don't have broken another vase!	WISH	
 Werd mal selbst von einem Haifisch gebisse 	en!?	
be bitten by a shark yourself (before you talk like this)		
Surprising: Not all are deontic.		

Regine Eckardt & Magdalena Schwager University of Göttinger How to do things with words 4: Performative verbs and impera

Donhauser 1986, Davies 1986

• Close the door!	Order	
Please call me!	Request	
 Take a taxi. 	Advice	
• Have fun at the party!	Wish	
Stay away from the projector.	WARNING	
Please be rich and intelligent!	Silent Wish	
 Come earlier (if you like). 	PERMISSION	
 Nimm zum Beispiel ein Taxi. 	non-exhaustive-ADVICE	
take a cab for example		
• Ok, then don't come!	Concession	
 Be one minute late and they won't let 	you in! Cond.Ant.	
• Come in time or you'll miss the first slot! ADVICE		
• Please don't have broken another vase! WISH		
• Werd mal selbst von einem Haifisch gebissen! ?		
be bitten by a shark yourself (before you talk like this)		
Surprising: Not all are directive. (Searle 1969), $(\overrightarrow{B}) (\overrightarrow{B}))) (\overrightarrow{B})) (\overrightarrow{B})) (\overrightarrow{B}))) (\overrightarrow{B})) (\overrightarrow{B})))) (\overrightarrow{B}))))) (\overrightarrow{B})))))) (\overrightarrow{B})))))))))))))))))))$		

Regine Eckardt & Magdalena Schwager University of Göttinger How to do things with words 4: Performative verbs and impera

Donhauser 1986, Davies 1986

• Close the door!	Order	
Please call me!	Request	
 Take a taxi. 	Advice	
• Have fun at the party!	Wish	
Stay away from the projector.	WARNING	
Please be rich and intelligent!	SILENT WISH	
 Come earlier (if you like). 	Permission	
 Nimm zum Beispiel ein Taxi. 	non-exhaustive-Advice	
take a cab for example		
• Ok, then don't come!	Concession	
 Be one minute late and they won't let 	<i>you in!</i> Cond.Ant.	
• Come in time or you'll miss the first slot! ADVICE		
• Please don't have broken another vase! WISH		
• Werd mal selbst von einem Haifisch gebissen! ?		
be bitten by a shark yourself (before you talk like this)		
Surprising: Occurrence at sub speech act	level. (a) (e) (e) (e)	

Donhauser 1986, Davies 1986

Regine Eckardt & Magdalena Schwager University of Göttinger How to do things with words 4: Performative verbs and impera

Meaning: the link between grammatical form and use

- not all are deontic (ADVICE, WISH, Conditional, ...)
- not all are directive (Searle 1969: installing an (ever so weak) obligation)
- constrain permissible possibilities (ORDER) open up possibilities (PERMISSION) (Lewis 1979)
- at subspeech act level: Conditional and
- \Rightarrow No particular speech act. No uniform effect on the discourse setting.

Conclusion: no separate speech act related layer.

Desideratum

Assign an underspecified semantic denotation that - under the respective contextual settings - amounts to the effects observed.

・ロト ・ 日 ・ ・ 日 ・ ・ 日 ・ ・

The quest for an underspecified semantics

Imperatives behave a lot like (performative) necessity modals: abstracting away from PERMISSIONS, for example-ADVICE

- (21) a. You must do the shopping! ORDER/REQUEST
 b. Do the shopping!
 (22) a. You should take the train. ADVICE
 - b. Take the train.

A B K A B K

The quest for an underspecified semantics

Imperatives behave a lot like (performative) necessity modals: abstracting away from PERMISSIONS, for example-ADVICE

(21) a. You must do the shopping! ORDER/REQUESTb. Do the shopping!

ADVICE

・ 同 ト ・ ヨ ト ・ ヨ ト

(22) a. You should take the train.b. Take the train.

Assumption 2:

Imperatives denote whatever semantic object is denoted by a corresponding sentence with a performative modal verb.

The quest for an underspecified semantics

Imperatives behave a lot like (performative) necessity modals: abstracting away from PERMISSIONS, for example-ADVICE

- (21) a. You must do the shopping! ORDER/REQUEST b. Do the shopping!
- (22) a. You should take the train. b. Take the train.

Advice

Assumption 2:

Imperatives denote whatever semantic object is denoted by a corresponding sentence with a performative modal verb.

+ Assumption 1 (modals, semantically: performative=descriptive):

You should-reduction

Hamblin 1987: Kant

w.r.t. propositional content: $\llbracket You \text{ should } go. \rrbracket = \llbracket Go! \rrbracket$

For similarity imp.-modals also Han 1999, Aloni 2005, Portner 2007. 2000 Regine Eckardt & Magdalena Schwager University of Göttinger How to do things with words 4: Performative verbs and impera



• get the analysis to work:

Regine Eckardt & Magdalena Schwager University of Göttinger How to do things with words 4: Performative verbs and impera

(1日) (日) (日)

3



- get the analysis to work:
 - in contrast to modalized declaratives, imperatives cannot be used as mere descriptions of modals state of affairs (always 'performative')

白 と く ヨ と く ヨ と …

Challenges

- get the analysis to work:
 - in contrast to modalized declaratives, imperatives cannot be used as mere descriptions of modals state of affairs (always 'performative')
 - make sure they can only be used felicitously if a corresponding modal would behave non-descriptively ⇒ add a presuppositional meaning component

伺下 イヨト イヨト

Challenges

- get the analysis to work:
 - in contrast to modalized declaratives, imperatives cannot be used as mere descriptions of modals state of affairs (always 'performative')
 - make sure they can only be used felicitously if a corresponding modal would behave non-descriptively ⇒ add a presuppositional meaning component
- evaluate the analysis:

伺下 イヨト イヨト

Challenges

- get the analysis to work:
 - in contrast to modalized declaratives, imperatives cannot be used as mere descriptions of modals state of affairs (always 'performative')
 - make sure they can only be used felicitously if a corresponding modal would behave non-descriptively ⇒ add a presuppositional meaning component
- evaluate the analysis: compare the split representationalist approach in Portner (2007): imperatives are a dynamic device that
 - installs obligations for the addressee (of different strength)
 - renders true subsequent descriptive modals of the same flavor

・ 同 ト ・ ヨ ト ・ ヨ ト

self-verifying/inaccessibilty of truth-value:

(23) A: You must go now!/Go! - B: #That's not true!

白 と く ヨ と く ヨ と …

self-verifying/inaccessibilty of truth-value:

(23) A: You must go now!/Go! - B: #That's not true!subjectivity (deontic Moore's paradox):

(24) #You should go to Paris/Go to Paris ... but in fact, I think it's not advisable. Frank 1995

伺 と く ヨ と く ヨ と …

self-verifying/inaccessibilty of truth-value:

(23) A: You must go now!/Go! - B: #That's not true!subjectivity (deontic Moore's paradox):

(24) #You should go to Paris/Go to Paris ... but in fact, I think it's not advisable. Frank 1995

not considered epistemically necessary/impossible:

(25) #You must go to confession, but you're not going to. Ninan 2005

・吊り ・ヨト ・ヨト ・ヨ

回 と く ヨ と く ヨ と …

prioritizing ordering source (Portner 2007)

ヨト イヨト イヨト

- prioritizing ordering source (Portner 2007)
- the speaker counts as an epistemic authority on the issue in question

伺下 イヨト イヨト

- prioritizing ordering source (Portner 2007)
- the speaker counts as an epistemic authority on the issue in question
- the speaker is not known to consider the prejacent necessary/impossible

伺下 イヨト イヨト

- prioritizing ordering source (Portner 2007)
- the speaker counts as an epistemic authority on the issue in question
- the speaker is not known to consider the prejacent necessary/impossible
- the speaker is known to 'agree' with the ordering source

回 と く ヨ と く ヨ と

... contain a propositional modal operator OP_{Imp} , subject may be replaced by a silent pronoun (Wratil 2005; interpretation: \approx you):

(26) LF for Go!: [OP_{Imp} [you go home]]

個人 くほん くほん しほ

... contain a propositional modal operator OP_{Imp} , subject may be replaced by a silent pronoun (Wratil 2005; interpretation: \approx you):

... express what is best given what we consider possible courses of events cg_F (and possibly further information f) $(cg_F \text{ maps each world } w \text{ to } CG \text{ in } c, \text{ the propostions that constitute mutual joint belief in context } c, \bigcap cg_F$

= the context set CS)

(27)
$$\llbracket OP_{Imp} \rrbracket^{c,w} = \lambda f \lambda g \lambda p \lambda w. \forall w' \in O(cg_F \cup f, g, w) : p(w'). \cup pointwise$$

(本部) (本語) (本語) (語)

... contain a propositional modal operator OP_{Imp} , subject may be replaced by a silent pronoun (Wratil 2005; interpretation: \approx you):

... express what is best given what we consider possible courses of events cg_F (and possibly further information f) (cg_F maps each world w to CG in c, the

propostions that constitute mutual joint belief in context c, $\bigcap cg_F$ = the context set CS)

(27)
$$\llbracket OP_{Imp} \rrbracket^{c,w} = \lambda f \lambda g \lambda p \lambda w. \forall w' \in O(cg_F \cup f, g, w) : p(w'). \cup \text{ pointwise}$$

PERMISSION-imperatives: pragmatics - update effect of necessity statement under particular contextual constellations;

... contain a propositional modal operator OP_{Imp} , subject may be replaced by a silent pronoun (Wratil 2005; interpretation: \approx you):

... express what is best given what we consider possible courses of events cg_F (and possibly further information f) (cg_F maps each world w to CG in c, the

propostions that constitute mutual joint belief in context c, $\bigcap cg_F$ = the context set CS)

(27)
$$\llbracket OP_{Imp} \rrbracket^{c,w} = \lambda f \lambda g \lambda p \lambda w. \forall w' \in O(cg_F \cup f, g, w) : p(w'). \cup \text{ pointwise}$$

PERMISSION-imperatives: pragmatics - update effect of necessity statement under particular contextual constellations; for example-ADVICE: cf. below