

Introduction to Workshop

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A Brief History of FrameNet

- Prof. Charles J. Fillmore (1927-2014)
- Case grammar (Fillmore 1968, 1969)
- Frame semantics Fillmore (1976)
- Construction Grammar (Fillmore *et al.* 1988, 1985)
- Dictionary of the future (Fillmore & Atkins 1994)
- Two-way relation with Construction Grammar (Fillmore 2008)

The Scope of Frame Semantics

● Events

- ▶ **Being born:** LUs: *born.v, come into the world.v*
- ▶ **Giving birth:** *bear.v, beget.v, birth.n, birth.v, bring forth.v,, carry to term.v, have.v...*
- ▶ **Death:** *croak.v, death.n, demise.n, die.v, end.n, expire.v, kick the bucket.v...*

● Relations

- ▶ **Being relevant:** *irrelevant.a, pertinent.a, play (into).v, relevant.a*
- ▶ **Personal Relationship:** *adultery.n, affair.n, affianced.a, amigo.n, bachelor.n, beau.n...*

● States

- ▶ **Being in operation:** *off.prep, on.prep, operate.v, operational.a*
- ▶ **Being located:** *find.v, lie.v, located.a, sit.v, situated.a, stand.v, (ten)-twenty.n, whereabouts.n*

● Entities

- ▶ **Gizmo:** *appliance.n, centrifuge.n, contraption.n, device.n, gear.n, machine.n, mechanical.a, system.n, tool.n, ...*

FrameNet in One Slide

- 1,224 Frames (no schemas, but some scenarios. . .)
- Frame Elements (FEs) (roles) 10/frame, some “core” FEs
- 13,640 Lexical Units (LUs), connections between one lemma+POS and one frame
- 202,229 Manual annotations of corpus examples
- 1,876 Frame-to-frame relations: Inheritance, Using, Perspective on, . . .
- (and closely-related FE-to-FE relations)
- Multiple inheritance, forms a lattice (Valverde-Albacete 2008)
- Constructed bottom-up, quasi-ontology
- Semantic type labels: Animate, Human, Positive judgement, . . .
- Assumes Construction Grammar (“the Constructicon”)
- Metaphor and metonymy: sometimes even marked

The Growth of FrameNet(s)

- FrameNet at ICSI (1997-present)
- FrameNets in other languages

Chinese FN

Danish FN

Dutch FN

Finnish FN

FN Brasil

French FN

German (SALSA)

Hebrew FN

Hindi FN

Japanese FN

Korean FN

Latvian FN

Spanish FN

Swedish FN++

Urdu FN

Program of workshop (online):

http:

//www.ufjf.br/ifnw/program/

FILLMORE, CHARLES J.

1968.

The case for case.

In *Universals in Linguistic Theory*, ed. by E. Bach & R. Harms.
New York: Holt, Rinehart & Winston.

1969.

Toward a Modern Theory of Case.

In *Modern Studies in English: Readings in Transformational Grammar*, ed. by David A Reibel & Sanford A. Shane, 361–375.
Englewood Cliffs, New Jersey: Prentice-Hall.

1976.

Frame semantics and the nature of language.

Annals of the New York Academy of Sciences: Conference on the Origin and Development of Language and Speech 280.20–32.

1985.

Syntactic intrusions and the notion of grammatical construction.
In *Proceedings of the 11th Annual Meeting of the Berkeley Linguistics Society*, 73–86.

2008.

Border Conflicts: FrameNet Meets Construction Grammar.
In *Proceedings of the XIII EURALEX International Congress*, ed.
by Elisenda Bernal & Janet DeCesaris, 49–68, Barcelona.
Universitat Pompeu Fabra.

—, & B.T.S. ATKINS.

1994.

Starting where the dictionaries stop: The challenge for
computational lexicography.

In *Computational Approaches to the Lexicon*, ed. by Antonio

Zampolli & Sue Atkins. Oxford University Press.

—, PAUL KAY, & MARY CATHERINE O'CONNOR.

1988.

Regularity and idiomaticity in grammatical constructions: The case of *let alone*.

Language 64.501–538.

VALVERDE-ALBACETE, FRANCISCO J.

2008.

Extracting Frame-Semantics Knowledge using Lattice Theory.

J Logic Computation 18.361–384.