Named Entity Recognition

Natural Language Processing CSCI 6350 Dr. Sal Barbosa

Named Entity Recognition

- Specific type of information extraction in which the goal is to extract formal names of particular types of entities such as people, places, organizations, etc.
- Usually a preprocessing step for subsequent task-specific IE, or other tasks such as question answering.



rom slides by Raymond Mooney, University of Austin

Named Entity Recognition Example

U.S. Supreme Court quashes 'illegal' Guantanamo trials

Military trials arranged by the Bush administration for detainees at Guantanamo Bay are illegal, the United States Supreme Court ruled Thursday. The court found that the trials — known as military commissions — for people detained on suspicion of terrorist activity abroad do not conform to any act of Congress. The justices also rejected the government's argument that the Geneva Conventions regarding prisoners of war do not apply to those held at Guantanamo Bay. Writing for the 5-3 majority, Justice Stephen Breyer said the White House had overstepped its powers under the U.S. Constitution. "Congress has not issued the executive a blank cheque," Breyer wrote.

President George W. Bush said he takes the ruling very seriously and would find a way to both respect the court's findings and protect the American people.

from slides by Raymond Mooney, University of Austin

Named Entity Recognition Example

people

places

organizations

U.S. Supreme Court quashes 'illegal' Guantanamo trials

Military trials arranged by the Bush administration for detainees at Guantanamo Bay are illegal, the United States Supreme Court ruled Thursday. The court found that the trials — known as military commissions — for people detained on suspicion of terrorist activity abroad do not conform to any act of Congress. The justices also rejected the government's argument that the Geneva Conventions regarding prisoners of war do not apply to those held at Guantanamo Bay. Writing for the 5-3 majority, Justice Stephen Breyer said the White House had overstepped its powers under the U.S. Constitution. "Congress has not issued the executive a blank cheque," Breyer wrote.

President George W. Bush said he takes the ruling very seriously and would find a way to both respect the court's findings and protect the American people.

from slides by Raymond Mooney, University of Austin

Named Entity Types and Examples		
Harriod Ericky Types and Examples		
Type	Tag	Sample Categories
People	PER	Individuals, fictional characters, small groups
Organization	ORG	Companies, agencies, political parties, religious groups, sports teams
Location	LOC	Physical extents, mountains, lakes, seas
Geo-Political Entity	GPE	Countries, states, provinces, counties
Facility	FAC	Bridges, buildings, airports
Vehicles	VEH	Planes, trains, and automobiles
Type	Example	
People	Turing is often considered to be the father of modern computer science.	
Organization	The IPCC said it is likely that future tropical cyclones will become more intense.	
Location	The Mt. Sanitas loop hike begins at the base of Sunshine Canyon.	
Geo-Political Entity	Palo Alto is looking at raising the fees for parking in the University Avenue dis-	
	trict.	
Facility	Drivers were advised to consider either the Tappan Zee Bridge or the Lincoln	
	Timnel.	
Vehicles	The updated Mini Cooper retains its charm and agility.	
5		
from Speech and Language Processing (2d ed) by Jurafsky and Martin		













