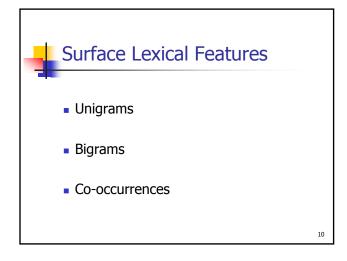
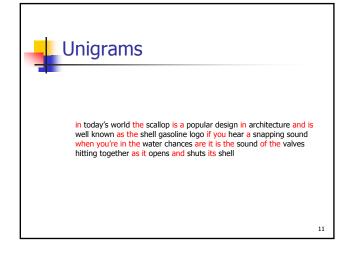
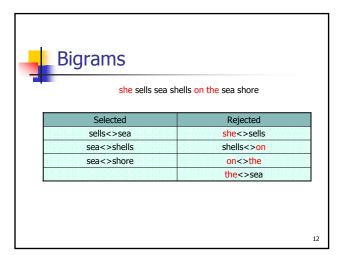


Global Training

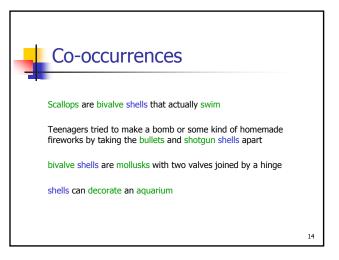
U.S. researchers said sea shells may be the product of a geological accident that flooded ancient oceans with calcium, thereby diversifying marine life. Researchers at the U.S. Geological Survey have found the amount of calcium in sea water shot up between the end of the Proterozoic era (about 544 million years ago) and the early Cambrian period (515 million years ago). This increase, they suggested, allowed soft-bodied marine organisms to create hard shells or body parts from the calcium minerais. The researchers studied the chemical composition of liquids trapped in the cavities of salty rocks called haltes, which provide samples of prehistoric oceans. John Kerry is a man who knows how to keep a secret. The Democratic White House hopeful was so obsessed with making sure the name of John Edwards, his vice presidential running mate, remained under wraps until the announcement that he had vendors who printed up placards and T-shirts sign a non-disclosure agreement. Kerry himself telephoned his plane charter company at 6 p.m. on Monday night to let them in on his decision in time to have the red, white and blue aircraft's decal changed to read "Kerry-Edwards 4 Stronger America." Edwards did not travel to Pittsburgh to attend the rally at which his name was announced, which also might have alerted the media. After months of speculation, first reports began emerging less than 90 minutes before Kerry made his public announcement at 9 a.m.

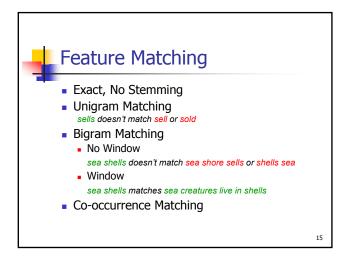


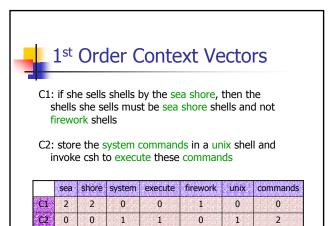




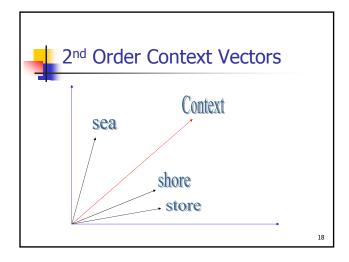
| 4 | Bigrams in Window | | | | | | | |
|---|---|-------------|---------------|--|--|--|--|--|
| | she sells sea shells on the sea shore she sells sea shells on the sea shore she sells sea shells on the sea shore | | | | | | | |
| | Window3 | Window4 | window5 | | | | | |
| | sells<>shells | shells<>sea | sea<>sea | | | | | |
| | | | shells<>shore | | | | | |

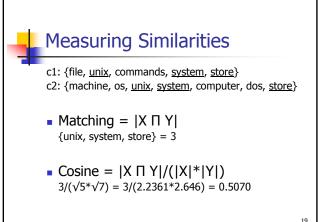




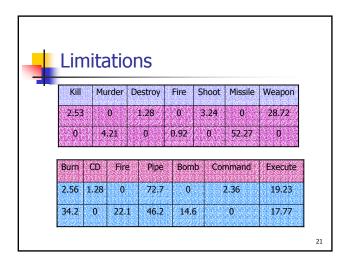


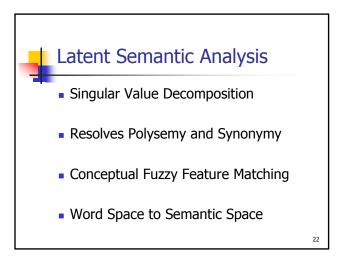
| | | rder | Cor | ntext | : Ve | ctors | |
|--------------|----------|-----------|----------------|----------|---------|----------|-----------|
| | The | e largest | shell s | tore by | the sea | a shore | |
| | Sells | Water | North- West | Sandy | Bombs | Sales | Artillery |
| Sea | 18.5533 | 3324.98 | 30.520 | 51.7812 | 8.7399 | 0 | 0 |
| Shore | 0 | 0 | 29.576 | 136.0441 | 0 | 0 | 0 |
| Store | 134.5102 | 205.5469 | 0 | 0 | 0 | 18818.55 | 0 |
| 02 ontext | 51.021 | 1176.84 | 20.032 | 62.6084 | 2.9133 | 6272.85 | 0 |

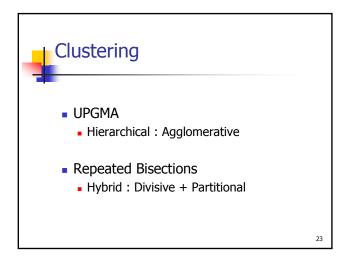


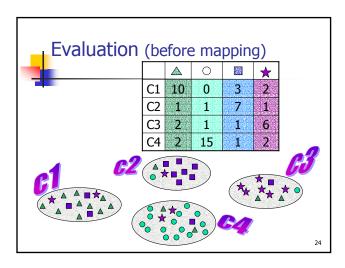


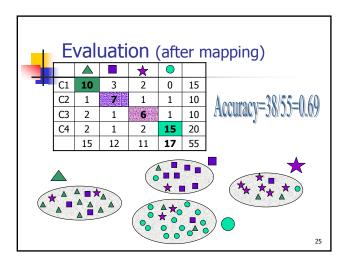
| file | Unix | commands | system | store | machine | OS | comp | admin | dos |
|------|------|----------|--------|---------|-----------|-------------|---------------------------------------|---------------------------------------|---|
| 2 | 1 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2 | 0 | 1 | 2 | 1 | 2 | 1 | 0 | 1 |
| | 2 | 2 1 | 2 1 3 | 2 1 3 1 | 2 1 3 1 2 | 2 1 3 1 2 0 | 2 1 3 1 2 0 0 | 2 1 3 1 2 0 0 | 2 1 3 1 2 0 0 0 |

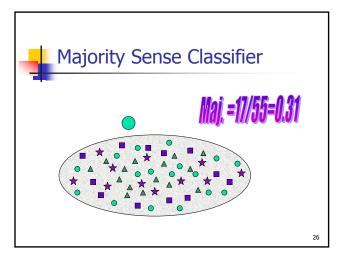


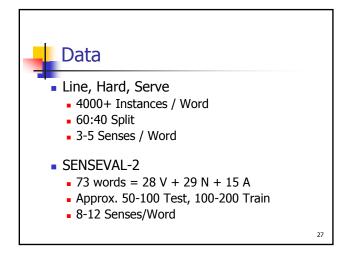


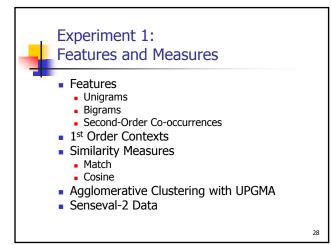




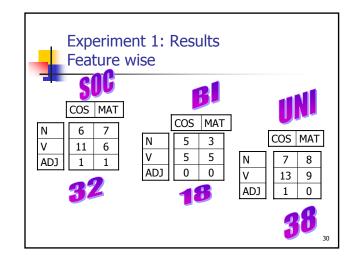


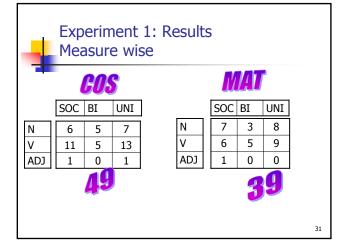


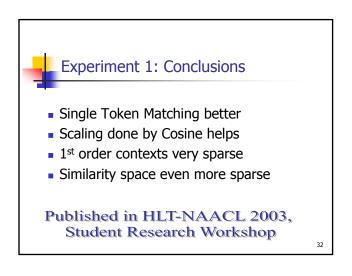




| - | | berin S wis | nent 1 se | : Re | sults | | | | |
|-----|--|----------------|--------------|------|--------------|------------|------------|-----|---|
| | 29 N | OUN | IS 2 | | erb : | <u>s</u> 1 | 5 a | | _ |
| | COS | MAT | | COS | MAT | | COS | MAT | |
| SOC | 6 | 7 | SOC | 11 | 6 | SOC | 1 | 1 | |
| BI | 5 | 3 | BI | 5 | 5 | BI | 0 | 0 | |
| UNI | 7 | 8 | UNI | 13 | 9 | UNI | 1 | 0 | |
| | No of words of a POS for which experiment obtained accuracy more than Majority | | | | | | | 29 | |







| Experiment 2: 2 nd Order Contex | ts and RBR |
|---|----------------------------------|
| Pedersen & Bruce | Schütze |
| (1 st Order Contexts) | (2 nd Order Contexts) |
| • PB1 | · SC1 |
| Co-occurrences, | Co-occurrence Matrix, SVI |
| UPGMA, Similarity Space | RB, Vector Space |
| • PB2 | • SC2 |
| PB1 except | SC1 except |
| RB, Vector Space | UPGMA, Similarity Space |
| • PB3 | • SC3 |
| PB1 with Bi-gram Features | SC1 with Bi-gram Matrix |

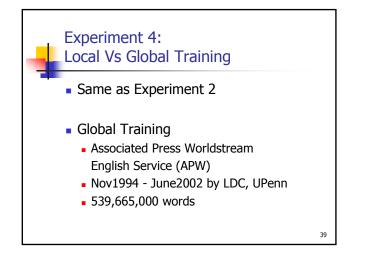
| | Experi Bi-gran | | | | | |
|---|-------------------|--------|--------|--------|---------------|--|
| - | Di-grai | 115 V3 | 5 00-0 | JCCurr | CHUES | |
| | | Ν | Α | V | | |
| | PB1 | 7 | 1 | 2 | Bi-gram > COC | |
| | Vs | 6 | 4 | 2 | Bi-gram < COC | |
| | PB3 | 1 | 1 | 0 | Bi-gram = COC | |
| | SC1 | 9 | 3 | 3 | Bi-gram > COC | |
| | Vs | 4 | 1 | 1 | Bi-gram < COC | |
| | SC3 | 1 | 2 | 0 | Bi-gram = COC | |
| | | | | | | |

| | Experiment 2: Sval2 Results RB Vs UPGMA | | | | | | | |
|-----|--|---|---|------------|----------|--|--|--|
| | N | Α | V | | | | | |
| PB1 | 9 | 4 | 1 | RB > UPGMA | Ī | | | |
| Vs | 4 | 0 | 2 | rb < Upgma | | | | |
| PB2 | 1 | 2 | 1 | RB = UPGMA | 1 | | | |
| SC1 | 8 | 1 | 3 | RB > UPGMA | t | | | |
| Vs | 2 | 5 | 0 | rb < Upgma | | | | |
| SC2 | 4 | 0 | 1 | RB = UPGMA | | | | |
| | - 1 00-5005025025 | | | | . | | | |

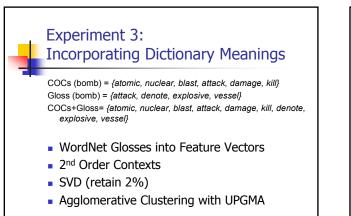
| | Experiment 2: Sval2 Results Comparing with MAJ | | | | | | |
|-----------|---|--------------------|---|-------|----|--|--|
| | N | A | V | Total | | | |
| SC3 > MA. | J 8 | 3 | 1 | 12 | | | |
| SC1 > MA | J 6 | 2 | 2 | 10 | | | |
| PB2 > MA | J 7 | 2 | 0 | 9 | | | |
| SC2 > MA | J 6 | 1 | 2 | 9 | | | |
| PB1 > MA |] 4 | 1 | 1 | 6 | | | |
| PB3 > MA | J 3 | 0 | 2 | 5 | | | |
| | | nacourtais bile of | | | 36 | | |

| | ent 2: R rd, Serv | e (TOP 3) |) |
|---------|----------------------|-----------------|-----------------|
| | 1 st | 2 nd | 3 rd |
| Line.n | PB1 | PB3 | PB2 |
| Hard.a | PB3 | PB1 | SC2 |
| Serve.v | PB3 | PB1 | PB2 |

| Nature of Data | Recommendation |
|--------------------------|------------------------------|
| Smaller Data | 2 nd order, RB |
| (like SENSEVAL-2) | |
| Large, Homogeneous | 1 st order, UPGMA |
| (like Line, Hard, Serve) | |



| Experim | ent 4: Res | sults | | | | | |
|--------------------------------|--|----------------|------------------------------|--|--|--|--|
| | G | L | X | | | | |
| PB1 | 12 | 10 | 5 | | | | |
| PB2 PB3 | 8 17 | <u>19</u> 9 | 0 | | | | |
| SC1 | 2 | 19 | 6 | | | | |
| SC2 | 10 | 10 | 7 | | | | |
| SC3 | 5 | 12 | and the second second second | | | | |
| Global imp | Global helps UPGMA Global improves PB3 (1st order + Bigrams + UPGMA) Overall Local Better | | | | | | |
| | | | 40 | | | | |



| Experiment 3: | Poculto |
|---------------|---------|
| Experiment 5. | Results |

| SVAL2 | GL>NOGL | GL=NOGL | GL <nogl< th=""></nogl<> |
|-------|---------|---------|--------------------------|
| N | 17 | 0 | 12 |
| Α | 9 | 4 | 2 |
| ٧ | 17 | 4 | 7 |
| | 43 | 8 | 21 |

LINE, HARD, SERVE NO IMPROVEMENT

