Semantic slot filling: CFG

Context-free grammar:

- SHOW → show me | i want | can i see |…
- FLIGHTS → (a) flight | flights
- ORIGIN → from CITY
- DESTINATION → to CITY
- CITY → Boston | San Francisco | Denver | Washington

Parsing:

```
                           S
        _____|_____
       |         |         |            |                  |
     SHOW    FLIGHTS     ORIGIN     DESTINATION        DEPARTDATE
      / \       |         / \          / \                / \
  Show  me   fligths  from  Boston   to  San Francisco  on  Tuesday
```