

Kennedy Assassination

**Kennedy just before
his assassination**



**Lee Harvey
Oswald**



Questions

1 Did Lee Harvey Oswald act alone?

2 Was there a second gunman?



If there was a second gunman,
how many bullets would there be?

Questions

How many bullets fired by Lee Harvey Oswald?



One missed



Two hit

Bullet Analysis

Bullets can fragment



How to put fragments together?



How to determine the total number of bullets?

DNA

Fingerprints

Fibre Analysis

Poison

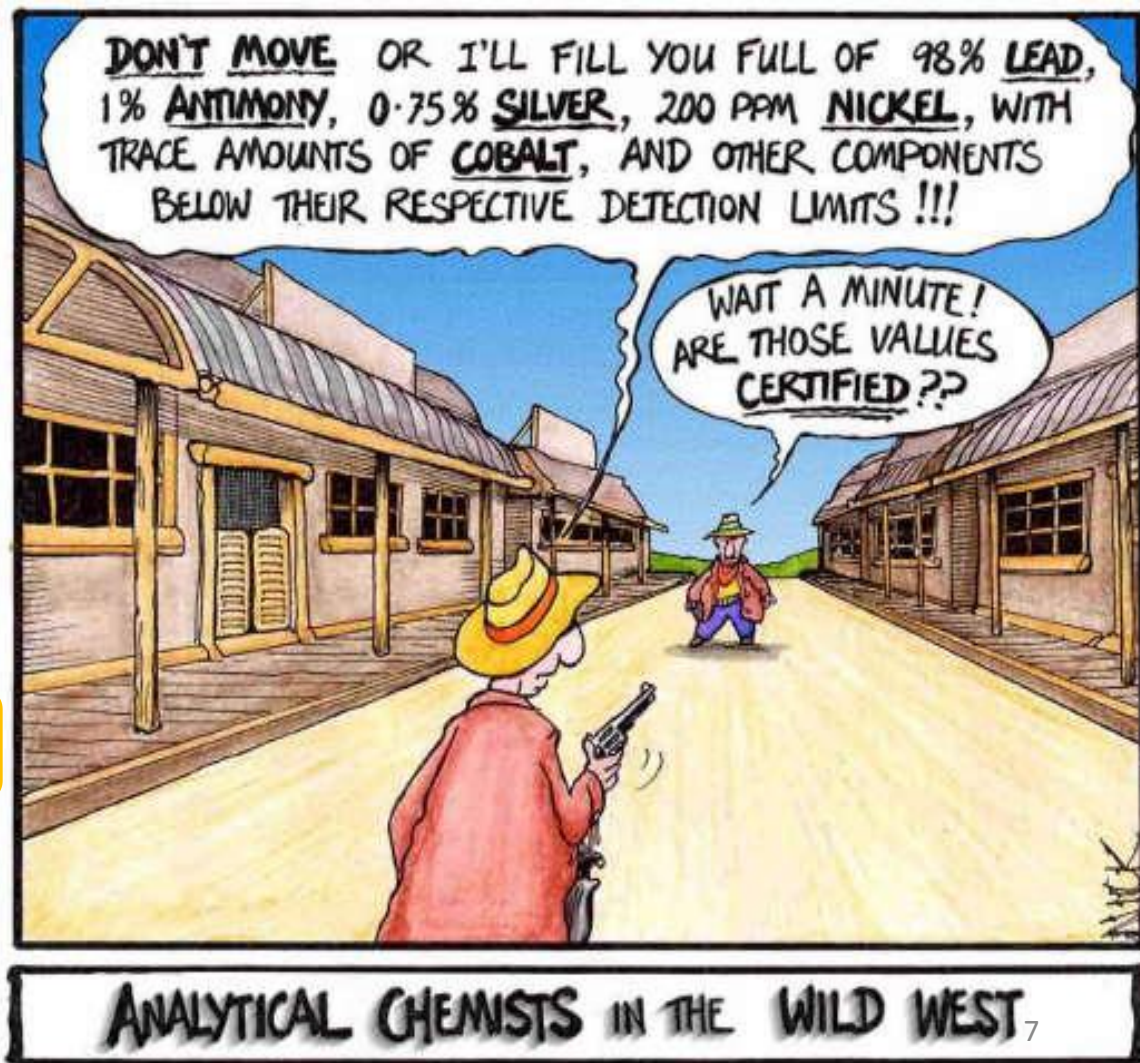
Blood

Bullet Analysis

Trace element composition

→ Silver (Ag)

→ Antimony (Sb)



Bullet Analysis

Neutron Activation Analysis (NAA) results

| Fragment | Ag / ppm | Sb / ppm | Sample description |
|----------|---------------|-------------|-----------------------------|
| 1 | 8.8 ± 0.5 | 833 ± 9 | Connally stretcher bullet |
| 2 | 9.8 ± 0.5 | 797 ± 7 | Connally's wrist (fragment) |
| 3 | 8.1 ± 0.6 | 602 ± 4 | Car (large fragment) |
| 4 | 7.9 ± 0.3 | 621 ± 4 | Kennedy's brain (fragments) |
| 5 | 8.2 ± 0.4 | 642 ± 6 | Car (fragment) |

NAA Analysis

Bullet fragments divided into two groups



Two bullets



Most likely a single gunman