8. FAIR COIN

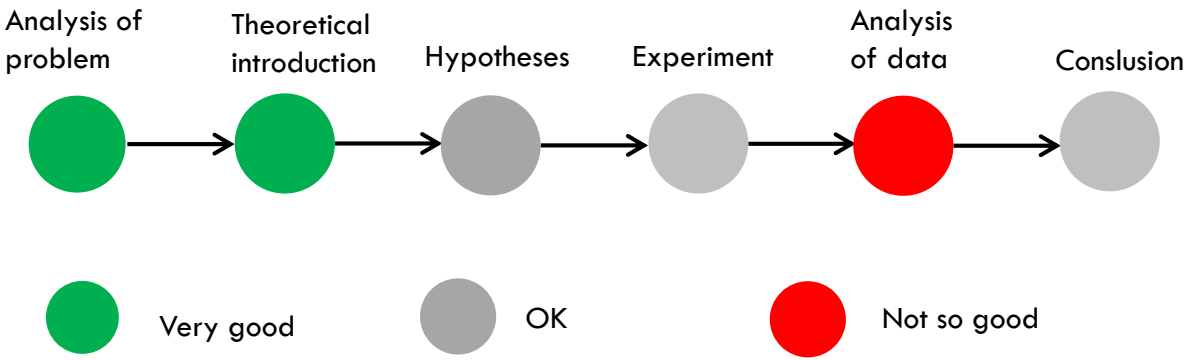
Team Croatia
Reviewer: Luka Mikšić

PROBLEM TEXT

In many cases, disputes are resolved with a coin toss. It is presumed that this procedure gives equal chances of winning to both sides. Investigate how the chances depend on the **tossing mechanism** and the **coin properties**.

REPORTER

- Covered statistics
- Important coin properties
- **No statistics to test if the coin is fair (chi squared test)**
- Coin material and hole tested, but not a **coin with a bulge**



OPPONENT

- Good question about the position of the hole
- Noticed the lack of prooving randomness
- Said „almost no parameters” – enough parameters were tested
- Comparison of different surfaces – interesting point

DISCUSSION

- Displacement of barycenter?

- Does the material of the coin influence the results?
    - Already tested in the presentation

- What about physical forces?
    - Wasn't really discussed

- What if the coin is made of one material and covered with another?

- Didn't discuss the other parameters (air currents)

THANK YOU!

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