

# Praktikum pozorovania



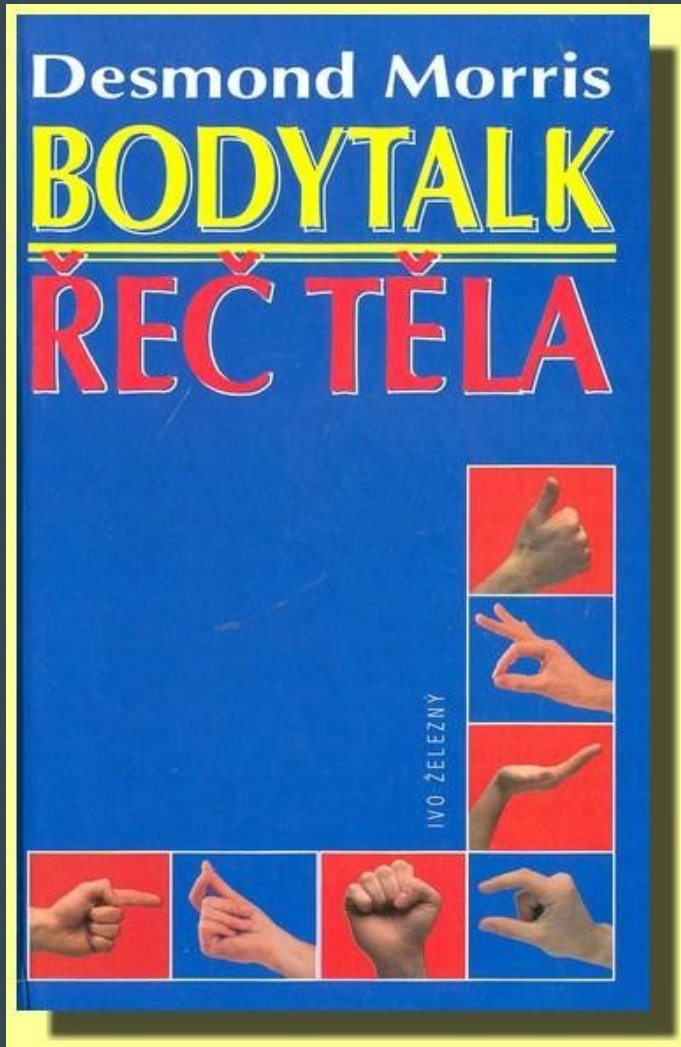
Body language, klamanie



# Bodytalk - řeč těla (Desmond Morris, 2004)

654 hesiel

Anglickú verziu nájdete v  
študijných materiáloch



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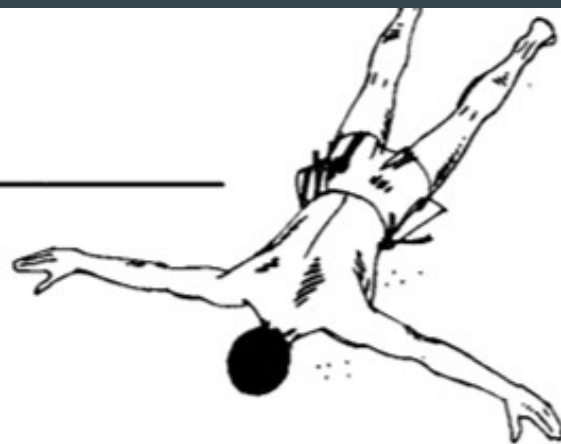
## **BODY PROSTRATE**

**Meaning:** Submissive greeting.

**Action:** The body lies chest-down on the ground, with arms spread wide.

**Background:** In earlier centuries, all-powerful rulers were often greeted in this abject manner. Today's formal bow, curtsy and kneel are almost the only remnants of this once common form of human subordination. Like all displays by inferiors towards superiors, it involves body lowering that makes the displaying individual appear much smaller than normal. In this case, the height-reduction is taken to the ultimate extreme. Today it is hard to find any examples of full prostration in front of dominant human figures, but some cases of religious prostration do still occur in front of a sacred image or a deity.

**Locality:** Still occurs in some religious orders, and a few remote tribal cultures.



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## BREASTS CUP

**Meaning:** She is sexy.

**Action:** The hands make groping movements as if cupping large female breasts and fondling them.

**Background:** The gesture is used as a vulgar suggestion of what a man would like to do to a particular female.

**Locality:** European in origin but understood almost everywhere.

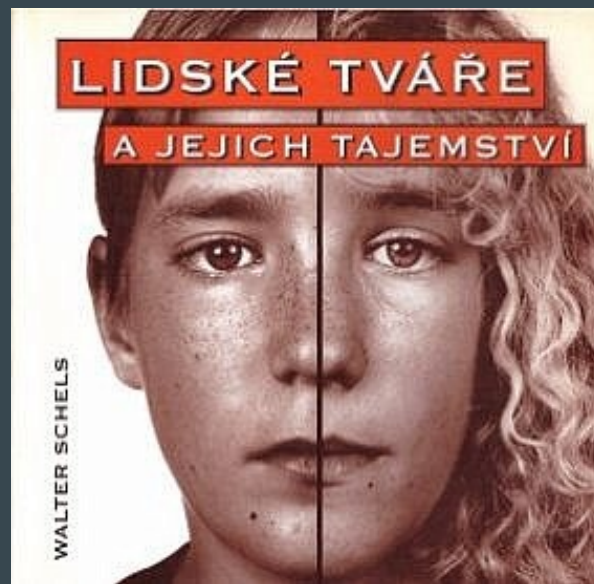
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# Lidské tváře a jejich tajemství (Walter Schels, 1998)

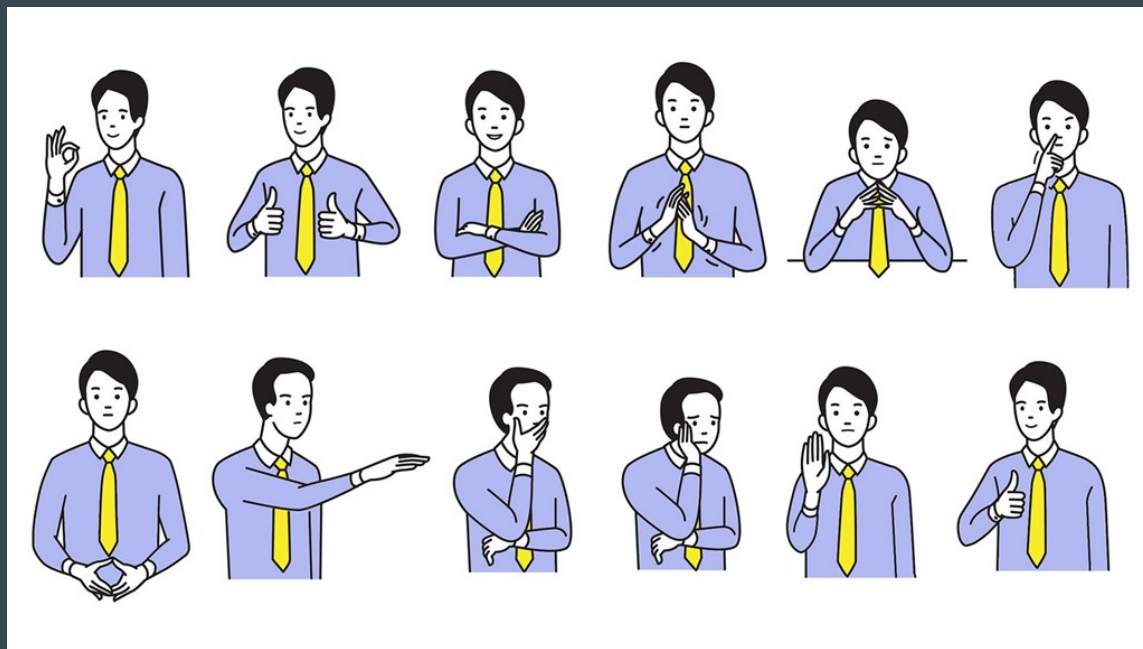
“Odstávající uši jsou rysem nepříjemných,  
nepřizpůsobivých jedinců”

“Větší nosní chřípí a dírky umožňují plný dech a  
ukazují na silný temperament”



# Body language

- výrazy tváre (emócie), držanie tela, pohyby rúk a nôh aj osobný priestor
- výrazy tváre
  - univerzálne
  - kultúrne podmienené



# Body language

- schopnosť správne “čítať” neverbálne komunikáciu - emočná/sociálna inteligencia
  - neuvedomovaná úroveň neverbálnej komunikácie
  - micro-expressions
  - ako dobre analyzujete mikro-výrazy?
- 
- 97 zaujímavých faktov o body language



# Klamanie a psychológia



- klamstvo je súčasťou komunikácie a formou sociálneho správania v interakcii
- predstavivosť, kreativita, pamäť a ďalšie kognitívne procesy
- forenzná psychológia alebo terapia
- evolučná psychológia - prečo ľudia klamú - v zásade ide o získanie výhod alebo vyhnutie sa trestu
- pseudologia phantastica = patologické klamanie
- odborný článok - [Psychology of Lying](#)
- článok od National Geographic - [Why We Lie](#)

In China, a suspect was forced to fill their mouth with rice and then spit it out. If the rice remained dry the suspect was found guilty.



~ 1000 BC

The Greek physician Erasistratus tried to detect deception by measuring pulse, a kind of precursor to the modern polygraph.

~ 300 BC

Various "trial by ordeal" or "God's judgment" methods were used including dipping suspect's hands into hot water to see if they were burned.



11TH CENTURY

Most contemporary methods include a mix of technology (PET, EEG, fMRI) and human observation (behavior analysis).



PRESENT

20TH CENTURY

Phrenology and graphology became popularized, claiming to determine someone's culpability by the contours of their skull and traits of their handwriting.

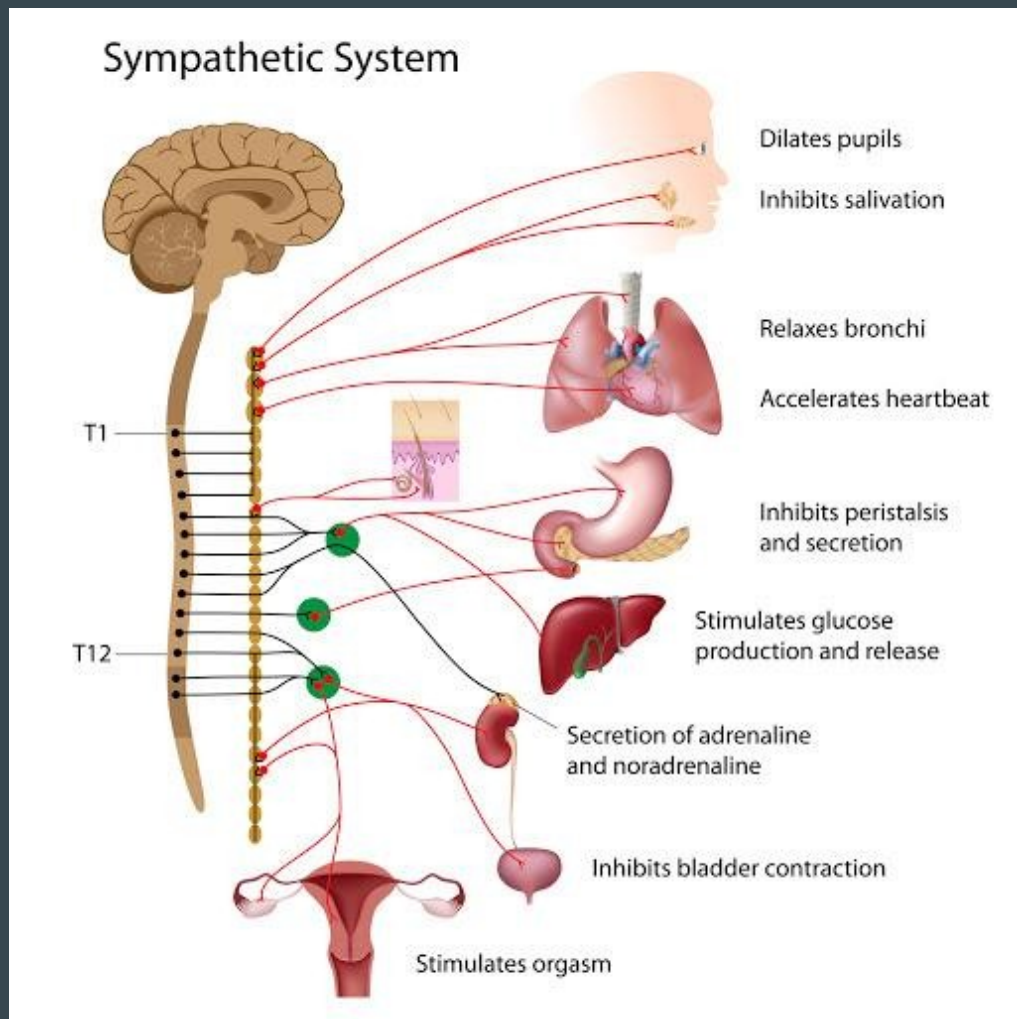


19TH CENTURY

The first polygraph was introduced in 1881 and elaborated on throughout the 1900s.

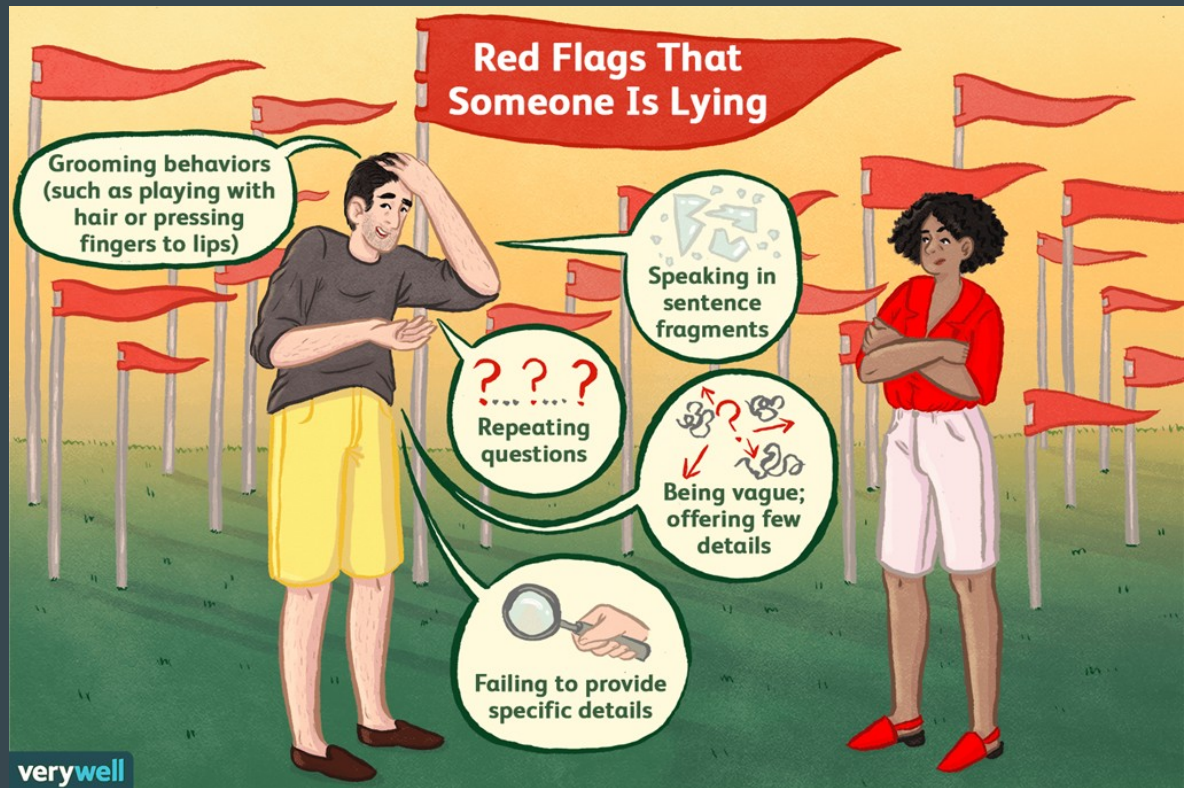
# Fyziologické signály

- signály, že človek klame = aktivácia sympatiku (arousal)
- moduluje neuronálnu a hormonálnu odpoveď na stres v zmysle **fight-or-flight**
- vlastné vnímanie klamstva - patologickí klamári



# Psychologické signály

- Vágnosť vyjadrení
- neistota v hlase
- ľahostajnosť
- prílišné premýšľanie počas výpovede
- opakovanie položených otázok
- neschopnosť poskytnúť určité detaily, pri otázkach
- upravujúce sa správanie - hranie sa s vlasmi, gombíkom, ...



# Spôsoby odhaľovania lži

4 kategórie:

- Analýza správania (hlas, výrazy tváre, pohyby tela, výber slov,...)
- Priame vyšetrowanie (dotazníky, testy, vypočúvanie, ...)
- Založené na fyziologických indikátoroch autonómnej a somatickej aktivity nezaznamenateľné bez špeciálneho vybavenia (polygraf, eye-tracking)
- Zaznamenávanie mozgovej aktivity (fMRI, PET, EEG)



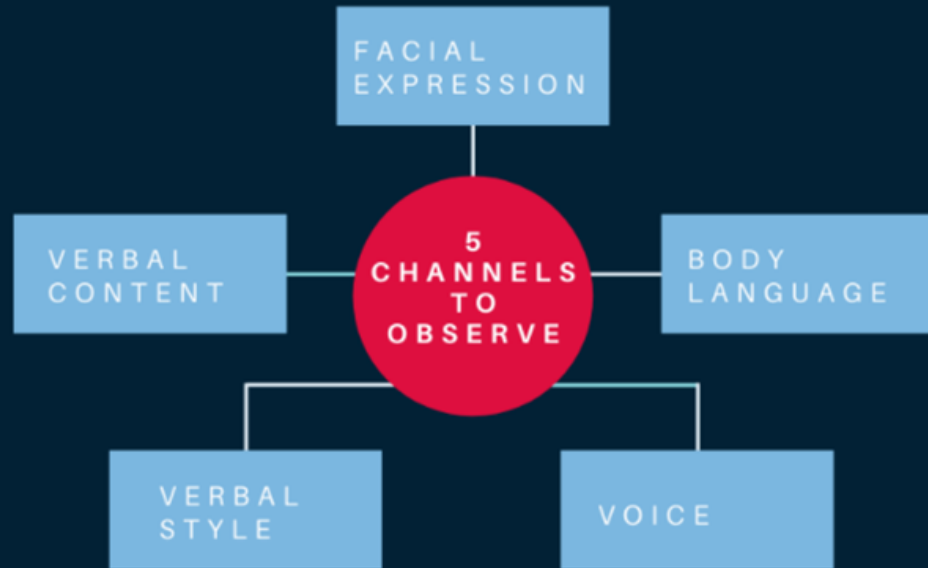
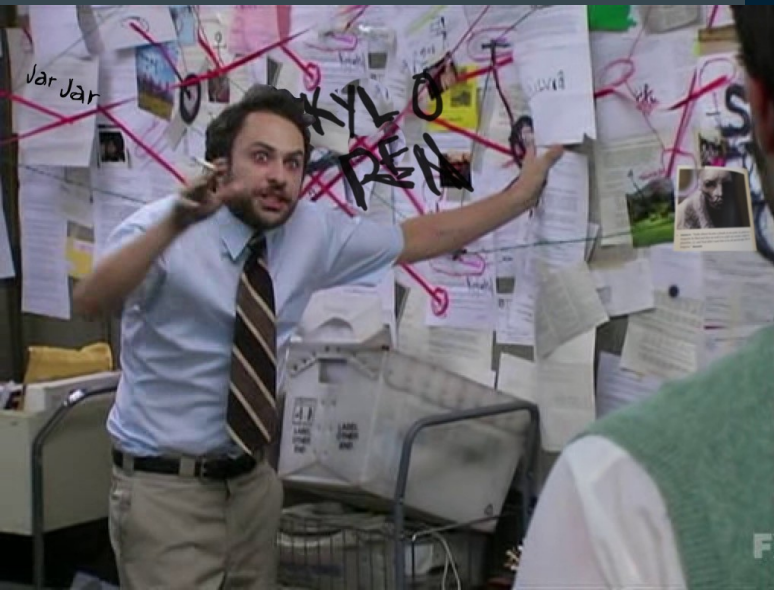


big  
think



# Analýza správania

- baseline
- tréning



# Polygraf (detektor lži)

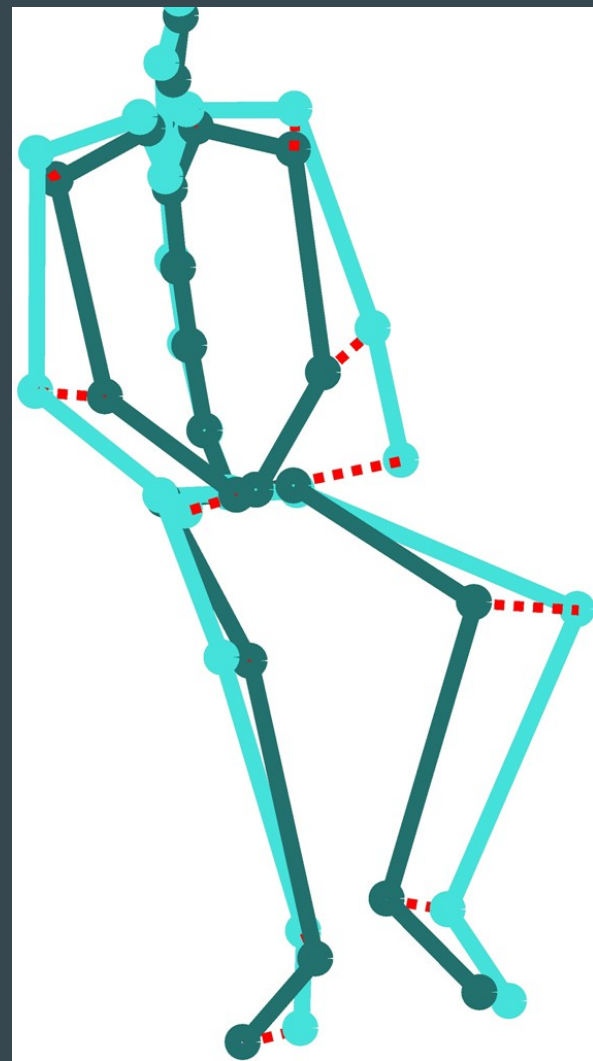
- tep, frekvencia dýchania, vodivosť kože a krvný tlak
- vplyv subjektivity - vlastný systém skórovania odpovedí
- APA: “Most psychologists agree that there is little evidence that polygraph tests can accurately detect lies.”
- [Článok na stránkach APA](#)





# Full body motion

- novší systém na odhaľovanie ľži
- efektívnejší ako polygraf
- funguje na princípe 17 senzorov, ktoré zachytávajú pohyb v 3D s frekvenciou 120 meraní za sekundu
- [výskumná štúdia](#) popisujúca technológiu



## Jeff Hancock

- lingvistický pohľad
- [článok](#) o algoritme na zachytávanie falošných reviews
- [6 príkladov](#)



Pamela Meyer - Ted  
talk



# Zdroje obrázkov

[https://www.verywellmind.com/thmb/c8m19DRbGdvxRfh7e0Vc5ifkd0I=/1500x1000/filters:no\\_upscale\(\):max\\_bytes\(150000\):strip\\_icc\(\)/illo\\_BodyLanguage-Posture-5984a3b99abed500102bc434.png](https://www.verywellmind.com/thmb/c8m19DRbGdvxRfh7e0Vc5ifkd0I=/1500x1000/filters:no_upscale():max_bytes(150000):strip_icc()/illo_BodyLanguage-Posture-5984a3b99abed500102bc434.png)

[https://www.databazeknih.cz/img/books/32\\_323693/big\\_lidske-tvare-a-jejich-tajemstvi-nro-323693.jpg](https://www.databazeknih.cz/img/books/32_323693/big_lidske-tvare-a-jejich-tajemstvi-nro-323693.jpg)

<https://i1.wp.com/www.trendmut.com/wp-content/uploads/2018/02/body-language.jpg?fit=1024%2C405&ssl=1&resize=1280%2C720>

<https://storage.googleapis.com/ltkcms.appspot.com/fs/yd/images/cover/body-language.base?v=1586979773>

[https://i.dlpng.com/static/png/426374\\_preview.png](https://i.dlpng.com/static/png/426374_preview.png)

<https://news.blr.com/app/uploads/sites/3/2017/11/telling-lies-2.jpg>

[https://www.verywellmind.com/thmb/GaRa8RC4KktAt1QXiuuXKouJfU=/1500x1000/filters:no\\_upscale\(\):max\\_bytes\(150000\):strip\\_icc\(\)/how-to-tell-if-someone-is-lying-2795917-c9075a9623f049d6b1d5e82317b23501.png](https://www.verywellmind.com/thmb/GaRa8RC4KktAt1QXiuuXKouJfU=/1500x1000/filters:no_upscale():max_bytes(150000):strip_icc()/how-to-tell-if-someone-is-lying-2795917-c9075a9623f049d6b1d5e82317b23501.png)

[https://upload.wikimedia.org/wikipedia/commons/8/8e/Leonarde\\_Keeler\\_1937.jpg](https://upload.wikimedia.org/wikipedia/commons/8/8e/Leonarde_Keeler_1937.jpg)

<https://www.cl.cam.ac.uk/~rja14/Papers/HICSS-to-freeze-or-not-to-freeze.pdf>

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[https://lh3.googleusercontent.com/proxy/5G6F1wP9FOjIDSX5UPGGLMEk57r5PkgPkgX7bIkXOCvUGD9KN6clh9I-YaMMDQ\\_YptqwIG5Bfen-keQ8uaXUDIr61SGanwjgtMzY1ASAELJNoQJ5am6u\\_wwA8e87R6KNmiHM6xzdbW2HnQzygvkHiQ](https://lh3.googleusercontent.com/proxy/5G6F1wP9FOjIDSX5UPGGLMEk57r5PkgPkgX7bIkXOCvUGD9KN6clh9I-YaMMDQ_YptqwIG5Bfen-keQ8uaXUDIr61SGanwjgtMzY1ASAELJNoQJ5am6u_wwA8e87R6KNmiHM6xzdbW2HnQzygvkHiQ)

<https://www.ekmaninternational.com/wp-content/uploads/lie-to-me.jpg>

<https://www.porchdrinking.com/wp-content/uploads/2017/11/3jqRCaO.png>