

Transformative Research in the Learning Sciences: A focus on teaching, learning, and learning to teach

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Multilogicality

- Role of theory
- Ways of seeing (illuminating - obscuring)
- Polysemia
- Incommensurability

Research design

- emergent - contingent
- hermeneutic - phenomenological - criticality (ethnomethodological)
- learn, educate and improve at individual and collective levels
- ethical conduct (care, compassion, ...)
- multilevel inquiry

Theory of culture

- coherence | contradictions
- transformation | reproduction
- schemas | practices
- agency | structure
- agency | passivity
- fields without boundaries

Expression of emotion

- sounds (laughter, boos, roars ...)
- prosody, facial, proxemics
- emotional contagion - social resonance
- pulse, oxygenation, plethysmograph, temperature
- breathing patterns

Wellness

- Teaching (and learning) makes me sick
- Ameliorating excess emotion
- Harmony
- Stress
- Symptoms (shortness of breath, giddy, ...)
- Educating citizenry — toolkits

Social communication

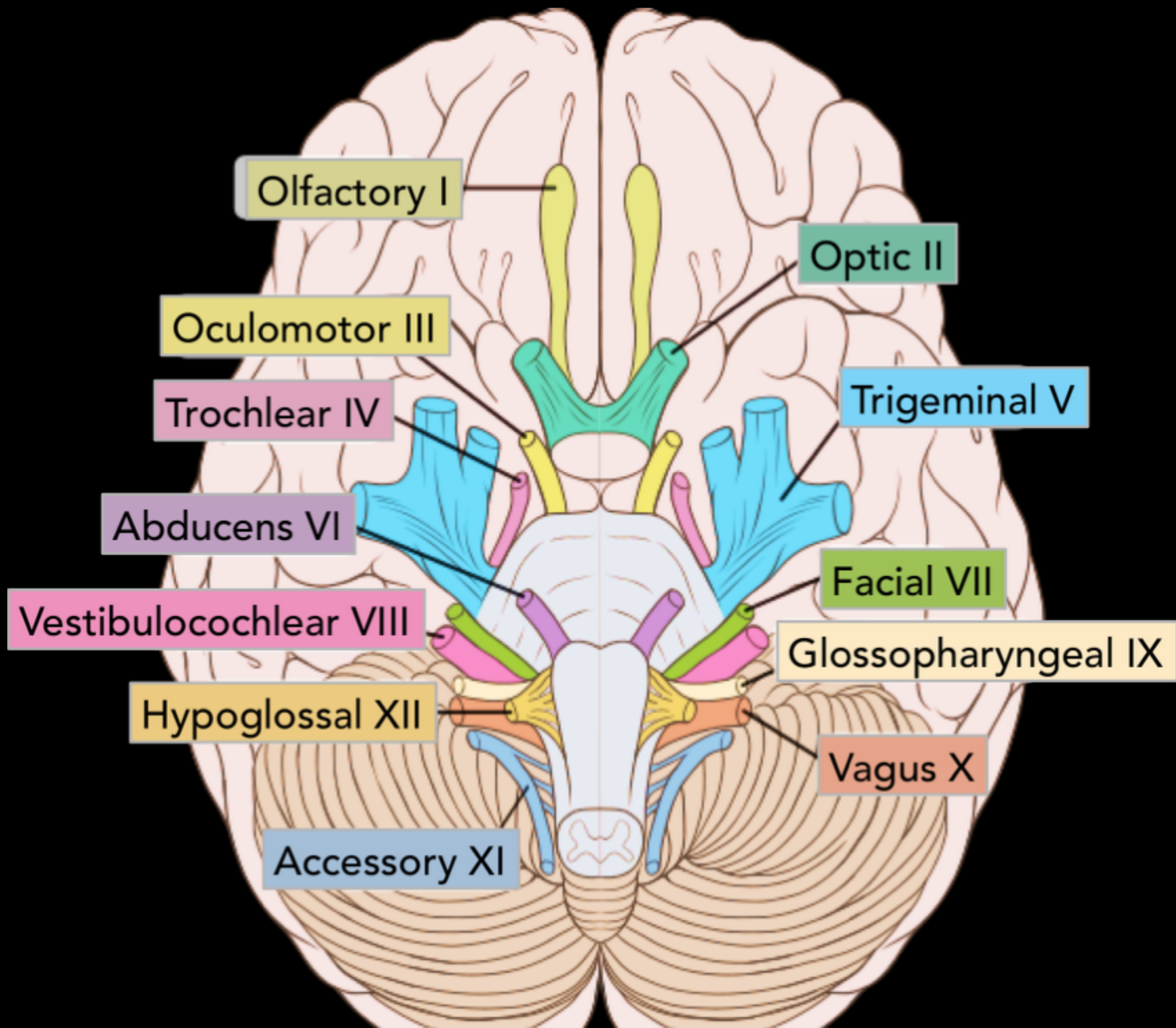
- conversation, prosody, proxemics
- synchrony
- prosodic bridges (loudness, pitch)
- power relations

Interventions

- breathing, freestyle writing, pacing, self hugs...
- heuristics
- light touch

Polyvagal theory (Stephen Porges)

- the wanderer (Darwin, 1872 pneumo-gastric)
- asymmetry (smart and reptilian)
- neuroception
- social communication
- fight - flight
- immobilization



Horror moment surfer fights off shark attack with bare hands



Surfer Mick Fanning was attacked by a shark mid-competition Credit: World Surf League