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# Cognitive Psychology

## Attention

### Dichotomy of attention

- you choose to attend to something —> endogenous attention
- or exogenous attention e.g. loud noise

### Focused 'selective' attention

- people who play video games until they die
- eating too much while watching tv —> miss cues about how much you've eaten
- vigilance tasks e.g. security guard staring in one place for ages, attention drops off

### Focused auditory attention

- stereo headphones where a different message is coming in each ear
- separates stream on audio into left ear and right ear
- physical task of discerning the signals is easier so that can focus on the cognitive task of which one to attend to

- **Dichotic Listening Task** — hear two messages and repeat back what they are hearing in one ear

- initial findings — only things processed from unattended message are the basic physical characteristics e.g. gender, whether its speech or sound
- locus of selection — point at which you make a decision to accept some material for further processing and other material is rejected
- assumes we have limited processing
- early locus of selection —> decision made based on physical characteristics, then material rejected is never processed beyond physical characteristics
- late locus of selection implies you have processed all the inputs to a higher degree and then made a decision
- relates to efficiency and effort before making a decision e.g. shallow people make a date selection based on physical characteristics,

### Broadbent's filter theory

- early locus of selection
- stimuli selected on the basis of physical characteristics
- unattended stimuli not processed further
- people with a low working memory are more easily distracted

### Treisman's attenuation theory

- designed to account for breakthroughs/intrusions
- attenuator reduces the processing of unattended words
- words which are expected are more likely to be processed
- implies late locus of selection
- things which have lower thresholds e.g. your name are more likely to be heard

### Leaky filter vs. slippage

- leaky filter would explain why some unattended items receive further analysis
- slippage is where attention suddenly shifts so unattended channel is attended briefly
- what may be happening when we notice our name is just that we are switching our attention

### Lavie's load account

- we are likely to be distracted when the task we are doing has a low perceptual load
- locus of selection depends on how much spare capacity we have
- if a task is simple we need a high level of arousal to perform better
- if a task is complex we need a reasonable level of arousal

### Evaluative pressure

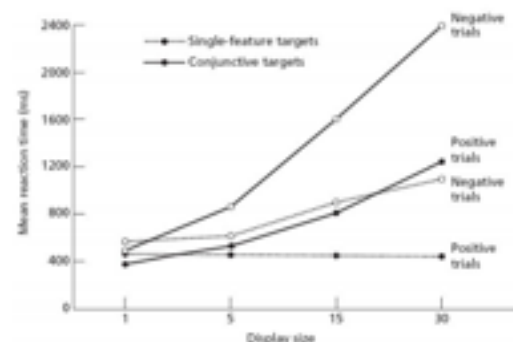
- people were more distracted by task relevant stimuli when stressed out and distraction by irrelevant features were reduced

### Feature integration theory — Treisman & Gelade (1980)

- task — find odd one out
- feature search — target is easy to find because it is unique on a single dimension e.g. only red thing, only circle thing
- conjunction search — target is not unique e.g. not the only red thing, not the only circle — harder to find
- feature search — the whole display is searched in parallel
- conjunction search — serially search the display to find target
- illusory conjunctions
- texture segregation — border defined by either features or conjunctions
- attention defined as process that combines features —> object perception

### Search slope

- if features are detected pre attentively then it shouldn't matter how many distractors there are = flat search slope — evidence of parallel/pre attentive processing
- but if we are searching the display serially then it will take longer the more distractors there are and the slope will be curved



### Problems with FIT

- distractors are heterogenous
- but in feature search the distractors are all the same so can be rejected on mass which makes it easier
- no clear distinction between parallel and serial searches in data
- conjunction search may be slower because target is more similar to distractors
- guided search — combining feature maps
- for a triple conjunction FIT predicts a serial search, whereas guided search predicts a more efficient search than for simple conjunctions i.e. if there are 3 features