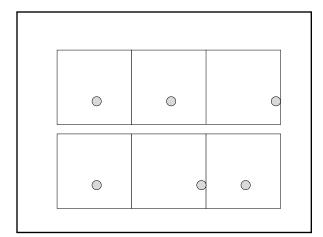
"Time flies when you're having fun"
"So much to do, so little time"
"A watched pot never boils"
"The bad news is time flies. The good news is you're the pilot"
"Time is too slow for those who wait, too swift for those who fear, too long for those who grieve, too short for those who rejoice, but for those who love time is eternity"
"The distinction between past, present and

Time is of the essence

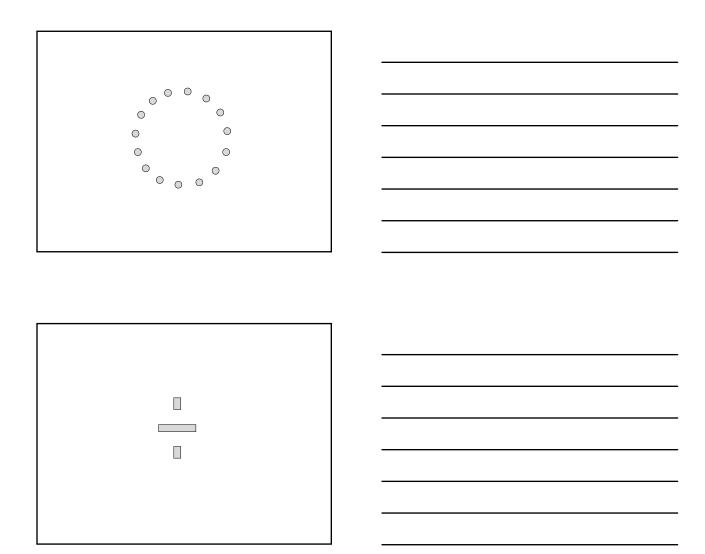
future is only an illusion, however persistent"

- Physical time
 - units
- Organization & Information
 - meals, classes, etc.
 - change
 - sudden onset
 - movement
 - order of occurrence



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Time & Space • Tau Effect Kappa Effect • Display Size Time Perception • Where is the receptor that registers the passage of time? • "events" • Visible Persistence • Temporal Summation



- Spotlight of attention
- Spatial Analyses
 - Local
 - Global
- Need for processing time



Biological Clock

- · circadian rhythms
 - light is the primary zeitgeber
 - entrainment
 - free-running experiments
 - temperature
 - body
 - external
 - time of day studies
 - autopilot

Biological Mechanism

- Suprachiasmatic Nucleus (SCN)
 - hypothalamus near optic chiasm
- Pineal Gland melatonin (Dracula hormone)
 - depresses body temp. and facilitates sleep onset

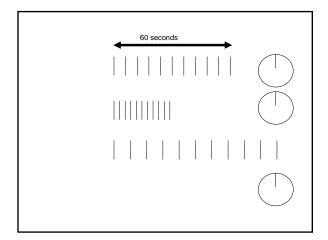
Passage of Time

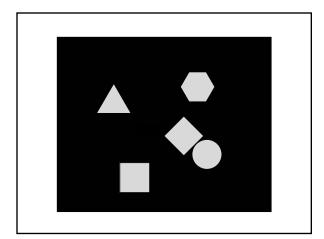
- Units of Psychological Time
 - perceptual moments
- Biological pacemaker
- Cognitive clocks

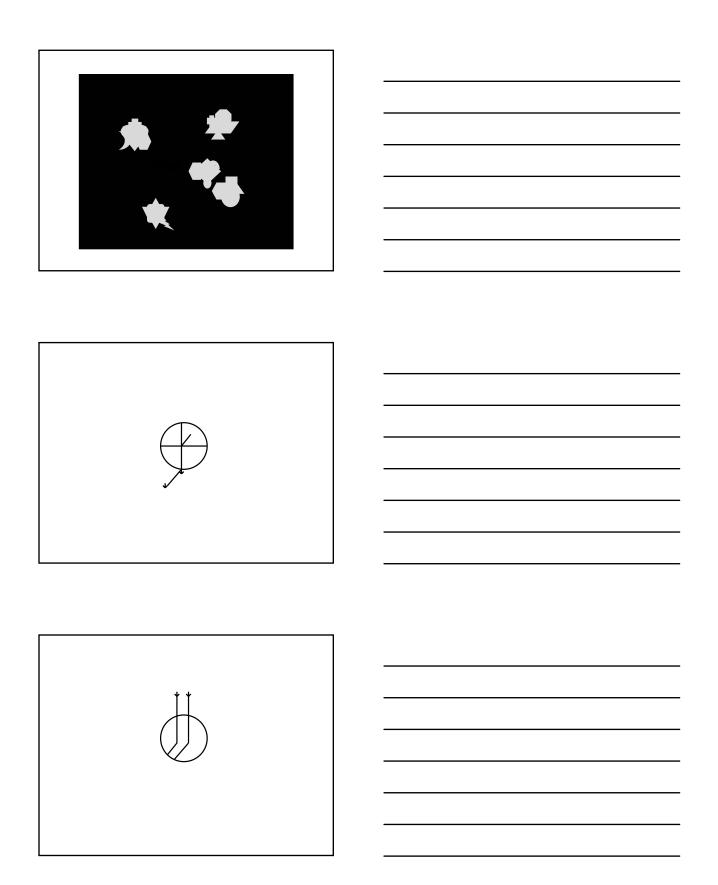
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Biological Pacemaker

- speed of physiological processes dictate perception of passage of time
 - Hoagland (1933) wife with fever (98° = 52s, 103° = 37.5s)
 - Baddeley (1966) scuba divers (97.39 $^{\circ}$ = 64.48s, 95.03 $^{\circ}$ = 70.44s)
- fatigue or anaesthetic gases slow processes, shorten perceived time interval
- stimulants accelerate processes, lengthen perceived time interval







Cognitive Clocks

- # of events more events, interval judged longer
- stimulus complexity more complex, interval judged longer
- memory more items or better remembered, interval judged longer

Attending to Time

- "Time flies when you're having fun"
- "A watched pot never boils"
- Temporal processing model
 - information processor
 - cognitive timer

Age and the passage of time

- As we get older time seems to pass more quickly
 - ratio explanation
 - dopamine

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