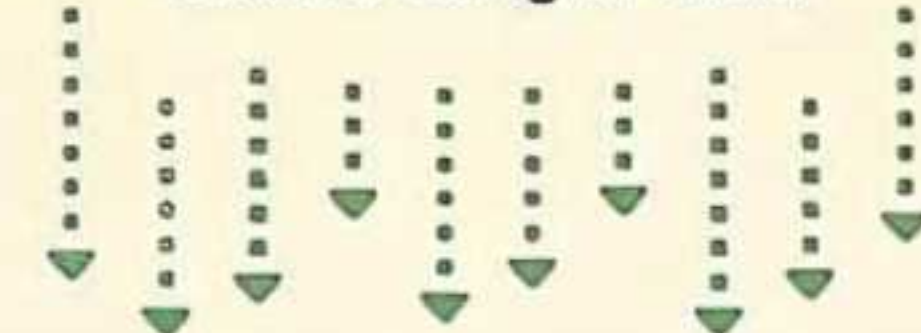


# THIS IS YOUR BRAIN ON PIANO

## PLAYING THE PIANO IS FUN

but check out all the things your  
brain is doing at once!



### EYES

Sight-reading on the piano involves reading two lines of music, each in a different clef.

VISUAL CORTEX

OCCIPITAL LOBE

### EARS

Pianists listen to notes being played and adjust their playing accordingly.

AUDITORY CORTEX

TEMPORAL LOBE

### 2 HANDS

Both hands often play intricate rhythms independently from each other.

PRIMARY MOTOR CORTEX

PREFRONTAL CORTEX

CEREBELLUM

### KEEPING TIME

Pianists accurately "keep time" by synthesizing and synchronizing all sensory input and motor activity. In addition, they are able to subdivide the beat in a myriad ways.

PREFRONTAL CORTEX

CEREBELLUM

### 10 FINGERS

Very few, if any, instruments require the use of all ten fingers.

PRIMARY MOTOR CORTEX

PREFRONTAL CORTEX

CEREBELLUM

### SPATIAL

Pianists know where all the notes are without having to look at the piano keyboard.

PARIETAL LOBE

CEREBELLUM

RIGHT HEMISPHERE

### ARTISTIC INTERPRETATION

Pianists transmit emotion by capturing the mood, style, and tempo of a song, using performance techniques such as dynamics, articulation, rhythm, and expressive timing.

PREFRONTAL CORTEX

### PROPRIOCEPTION

Pianists are aware of the relative position of neighbouring parts of their body and the strength of effort being employed in movement.

CEREBELLUM