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## Deciphering what information people use while reading

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## **Deciphering what information people use while reading**

Deanne Tak On Wah

Learning to read is a challenging task that requires readers to map sounds onto letter units. English presents particular challenges because the letters and sounds do not always perfectly match. As a result, readers may rely on various sources of information to read words. Existing studies have identified two main approaches when reading words: 1. a decoding route mapping letters to sounds, and 2. a whole word route deriving meaning directly from the letters. In my research, I study the preferred reading route for skilled and adult readers using both behavioural and brain imaging techniques. I aim to determine where the intermediate decoding and whole word reading processes are represented in the brain. To do this, I will combine different analysis techniques like neural networks and complex neuroimaging analyses. This research can provide insights on the preferred reading cues and brain regions activated by skilled readers while reading words.