PRE

Pre or Prefix is a family of symmetric cryptosystems that share the feature of states that write prefix or instantaneous codes. In other words, a Prefix machine outputs a variable number of symbols. In some versions the machine also consumes a variable number of symbols.

I've experimented with this idea in several languages. The trickier part to write is not the encoder and decoder but rather the part that generates a random key, something that is pretty easy for humans to do, but also tedious. I hope to further develop this project and add more information here. The simplest version (most compact) version is p-js, a JavaScript version without a key generator. Even in this symbol version the key evolves as a function of the particular plaintext being encoded.