→ <u>Acronyms</u>:

<u>FDT</u> : Fourier Discrete Transform.

<u>CNN</u> : Convolutional Neural Net

→ <u>Blending</u>:

→ Breakfast + Lunch → Brunch

→ Smoke + Fog   → Smog

→ Motor + Hotel → Motel

→ <u>Clipping</u>:

doctor : doc   fridge , Xerox

laboratory : lab

→ <u>Processing Morphology</u>:

→ Lemmatization.

→ <u>Morphological Analysis</u>:

saw → { <see, verb-past>,

saw -> $\{$<see, verb.past>,

$\qquad$ <saw, noun.sg> $\}$

-> <u>Tagging</u>: word -> tag, considers context.

-> <u>Parser</u> saw Mary Jane

$\qquad$ saw -> $\{$<see, verb.past>$\}$

-> <u>Morpheme Segmentation</u>: de-nation-al-iz-ation

-> <u>Generation</u>: $\{$see + verb.past -> saw$\}$

-> <u>Issues</u>:

boy -> boys / fly-flys -> flies

Toiling ->toil / Duckling -> duckl

-> <u>Lexicon</u>

-> Finite-State-Machines .

-> Tape & Information .

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$$\{ \; / / A N D / / / / / / \; \}$$

→ Regular Expression: Contextual Meaning.

→ Deterministic Finite Automata.

cat   ctat   cats

→ (0) —c→ (1) —a→ (2) —t→ ((3)) ⟲ s

→ (0) —c→ (1) —a→ (2) —t→ ((3))
                 (2) —s→ (4) → ((3))