LMUU^{kig-} Maximiliansuniversität münchen

Seminar "Scientific and Technical English for Computer Scientists" Winter Semester 2025/26

Lecture 4 Words and Phrases

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Words

Traditionally, English grammars distinguish between eight parts of speech:

- nouns (e.g., computer);
- pronouns (e.g., you);
- ▶ verbs (e.g., *eat*);
- adjectives (e.g., appropriate);

- adverbs (e.g., however);
- prepositions (e.g., in);
- conjunctions (e.g., but);
- ▶ interjections (e.g., *alas*).

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Understanding the parts of speech is necessary to understand English grammar, which in turn will help you **write better**.

A noun names a **thing** or a **concept**.

It can be a common noun (lowercased) or a proper noun (usually uppercased).

Examples of common nouns: *coffee*, *snake*, *summer*. Examples of proper nouns: *iPhone*, *Python*, *Switzerland*, The Da Vinci Code.

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Examples of common nouns: *coffee, snake, summer.* Examples of proper nouns: *iPhone, Python, Switzerland*, The Da Vinci Code.

Many nouns have both a **singular** and a **plural** form—e.g., *cat* vs. *cats*.

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In the following example, *who* is a <u>pronoun</u> that stands for the antecedent *Jessica*:

It was Jessica who opened the windows.

A verb describes an **action** or a **state of being**.

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A verb is called **transitive** if it takes a "direct object." Otherwise, it is called **intransitive**.

Many verbs can be used both transitively and intransitively.

Example of a transitive <u>verb</u>: *She <u>ate</u> lunch*. Example of an intransitive <u>verb</u>: *She <u>ate</u>*.

An adjective modifies a noun.

Examples of adjectives: *pink*, *wonderful*, *Austrian*, *many*, *this*, *such*, *five*, *my*, *which*, *each*, *some*, *the*, *a*.

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Example of an <u>adjective</u> as an "attributive" before a noun: *They bought a <u>beige</u> sofa*. Example of an <u>adjective</u> as the complement of a "copula verb": *The sofa is <u>beige</u>*.

An adverb **modifies a verb, an adjective, another adverb, or an entire sentence**. Examples of adverbs: *very, quickly, extremely, however, now, here, too*.

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Example of an <u>adverb</u> modifying a verb: *She ran <u>quickly</u>*. Example of an <u>adverb</u> modifying an adjective: *This color is <u>very</u> dark*. Example of an <u>adverb</u> modifying an adverb: *It all went <u>really</u> fast*. Example of a sentence <u>adverb</u>: <u>Unfortunately</u>, there is no solution.

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Triple example of prepositions: Dongchen moved from Chongqing to Munich in June.

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Examples: and, or, but, because, if, both-and, either-or, therefore.

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Two important types:

- Coordinating conjunctions join grammatical expressions of "equal rank."
- **Subordinating conjunctions** join grammatical expressions of "unequal rank."

Example of a coordinating <u>conjunction</u>: *I know*, <u>and</u> you know. Example of a subordinating <u>conjunction</u>: *Raise your hand <u>if</u> you know the answer*. In the second example, *if you know the answer* is a subordinate clause.

An interjection (or "exclamation") denotes an **abrupt**, **brief remark**. Examples: *alas*, *ah*, *well*, *ouch*.

There is virtually no place for interjections in formal writing.

A word's etymology refers to its **origin**.

Etymology can be fascinating, but it does not give a word's **true meaning**. For example, *thesaurus* is derived from the Greek word $\theta\eta\sigma\alpha\nu\rho\delta\varsigma$, meaning "storehouse, treasure," but in English it refers to a book of synonyms. Another example is the word *muscle*, which is derived from the Latin word *musculus*, meaning "little mouse."

A word's true meaning can be found in a dictionary.

Even if spelling is your forte, you might miss a **subtle misspelling** such as *arithemtic*, *occurence*, and *accomodate*. Any spell-checker will flag these. But it might not catch *lead* in *He lead a life devoid of blame*. (Change to *led*.) Even if spelling is your forte, you might miss a **subtle misspelling** such as *arithemtic, occurence,* and *accomodate.* Any spell-checker will flag these. But it might not catch *lead* in *He lead a life devoid of blame.* (Change to *led.*)

Some words have **multiple spellings**—e.g., *judgment* vs. *judgement*. Often, one will mainly be American and the other, British, so you can simply choose the appropriate variant. In cases such as *formulas* vs. *formulae*, you can follow your preference or select the most common form according to Google Books Ngram Viewer.

An abbreviation is a **shortened form** of a word or phrase. Some abbreviations belong to the written language (e.g., *Dr.* or *Dr*). Others exist also in speech (e.g., *exam*). An abbreviation is a **shortened form** of a word or phrase. Some abbreviations belong to the written language (e.g., Dr. or Dr). Others exist also in speech (e.g., *exam*).

Written-only abbreviations usually end with a period (.). Exceptionally, in British English, the period is omitted if the abbreviation ends with the original word's last letter (e.g., Dr, Mr).

Two special types of abbreviations:

- An acronym is an abbreviation consisting of the initial letters of other words and pronounced as a word (e.g., ASCII).
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In American English, some two-letter initialisms are spelled with periods (e.g., U.S.).

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Lengthy phrases such as *nondeterministic finite automaton* might conveniently be shortened to *NFA*. But often it suffices to write *automaton*. If you choose to write *NFA*, introduce it in parentheses at the first occurrence—i.e., *nondeterministic finite automaton* (*NFA*)—and use *NFA* from then on.

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If you use a lengthy phrase only **once**, do not introduce an abbreviation, unless the abbreviation is better known than the phrase.

Plurals

Regular plural formation adds the suffix *-s* or *-es*. But there are many **exceptions**, including the following:

Singular	Plural
appendix	appendices (or appendixes)
automaton	automata
basis	bases
corpus	corpora
criterion	criteria
datum	data
erratum	errata
formula	<i>formulae</i> (or <i>formulas</i>)
index	indices (or indexes)
matrix	matrices (or matrixes)
parenthesis	parentheses
thesis	theses

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David A. Huffman invented the algorithm around 1950. Our study confirms that system programmers prefer Rust to C. English distinguishes between three main verb tenses:

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When quoting Shafi Goldwasser, both *Goldwasser writes* and *Goldwasser wrote* work, but try to be locally consistent.

The future tense competes with the present tense. Compare:

In Section 8, we will describe our experiments. In Section 8, we describe our experiments. The future tense competes with the present tense. Compare:

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Knuth et al. recommend either of two approaches concerning tenses of verbs:

Either use present tense throughout the entire paper, or write sequentially. Sequential writing means that you say things like, "We saw this before. We will see this later." The sequential approach is more appropriate for lengthy papers.

Moods

English distinguishes between five verb moods:

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- interrogative (for questions);
- optative (for wishes);
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In modern English, the optative and the subjunctive moods are often replaced by the indicative mood. Compare:

I wish I were going.

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The traditional approach:

"must"	"going to"	"want"
_	l shall	I will
you shall	you will	_
she/he/it shall	she/he/it will	_
_	we shall	we will
you shall	you will	_
they shall	they will	_

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Traditionally, you would write *we shall see* rather than *we will see*. Notice how the first-person forms are shifted to the right. Compare:

I shall drown; no one will save me! I will drown; no one shall save me! Compare:

I shall drown; no one will save me! I will drown; no one shall save me!

According to the traditional approach:

- ► The first speaker expects to drown.
- ▶ The second speaker is expressing suicidal intent.

The modern approach:

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Using the modern approach, you would write we will see rather than we shall see.

You can choose either approach, but **do not mix and match**. The modern approach is slightly less formal. It is also easier to use. You can choose either approach, but **do not mix and match**. The modern approach is slightly less formal. It is also easier to use.

Regardless of which approach you choose, beware of using *shall* instead of *will* with the second or third person. Examples of sentences on a course's web site:

The course shall cover the textbook's first four chapters. The course will cover the textbook's first four chapters. Should you write we developed (past) or we have developed (present perfect)?

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Generally:

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- A gray area is the conclusion of a thesis or paper. Both forms are widely used:

We presented a technique to reconstruct a network from the observations of the nodes' phase dynamics.

We have presented a technique to reconstruct a network from the observations of the nodes' phase dynamics.

Phrases such as *the diagram above, the above code,* or *the table below* (but not *the below formula*) refer to material presented **before** or **after** the current sentence.

Despite the words' literal meanings, the material above does not need to occur above on the same page—it could be on an earlier page—and similarly for below.

Phrases

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What about Frau Professorin? In most scientific writing, personal titles are omitted.

Names with **particles**, such as Nicolaas Govert de Bruijn and John von Neumann, pose special challenges.

- ▶ When the family name starts a sentence, capitalize the particle.
- In the middle of a sentence, if the first names are omitted, write *De Bruijn* (following a Dutch convention) but *von Neumann*.

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Personal names from China, Japan, and some other **Asian countries** put the family name before the first name. However, such names are often reversed to comply with Western conventions. For Yang Chen, is Yang the given or the family name? You can find out by inspecting the self-citations in Yang Chen's papers.

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A separate challenge is to determine Yang Chen's **pronouns**. If you fail to obtain this piece of information, use singular *they*, or reword to avoid the issue. The possessive of singular nouns is generally indicated with 's. The possessive of singular nouns is generally indicated with an **apostrophe** ('). Examples: *Monica's novel, Charles's* (or *Charles'*) *thriller, the Müllers' textbook.* The possessive of singular nouns is generally indicated with 's. The possessive of singular nouns is generally indicated with an **apostrophe** ('). Examples: *Monica's novel, Charles's* (or *Charles'*) *thriller, the Müllers' textbook.*

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- Tremblay and Wilson's books (their shared books);
- ► *Tremblay's and Wilson's books* (their respective books).

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The possessive of pronouns is written without an apostrophe—e.g., *its name*, not *it's name*.

Repeated words can sometimes be **omitted**—e.g., the Haskell or the OCaml language is short for the Haskell language or the OCaml language. In the first phrase, the word language is understood. Repeated words can sometimes be **omitted**—e.g., the Haskell or the OCaml language is short for the Haskell language or the OCaml language. In the first phrase, the word language is understood.

However, this does not always work. Compare:

We turn Prolog into Haskell programs. We turn Prolog programs into Haskell programs. A restrictive relative clause **narrows the range** of the concept it modifies (i.e., the set of things the clause refers to)—e.g.:

The books that I bought yesterday were boring.

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A nonrestrictive relative clause **adds information** about the elements of the set but does not make it smaller—e.g.:

The books, which I bought yesterday, were boring.

(The books we are talking about are boring. Incidentally, I bought them yesterday.)

Pitfalls

Adjectives as adverbs

A common mistake, especially by German speakers, is to use adjectives in place of adverbs—e.g., *the program runs automatic* instead of *the program runs automatically*. The situation is complicated: Due to a phenomenon called "flat adverbs," using an adjective as an adverb can be legitimate—e.g., *drive slow*.

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Avoid old-fashioned words such as *albeit*, *behoof*, and *betwixt*.

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Foreign words

Foreign words that are well integrated into the language need no accents or italics—e.g., *role* (not *rôle*), *naive* (not *naive*). The French phrase $\frac{\partial}{\partial a}$ ("in the style of") is widely understood but informal. Rare foreign words are best avoided unless you explain them.

Malapropisms

A malapropism is the mistake of using a word in place of a similar-sounding one, sometimes with comical outcomes. A few problematic pairs follow:

affect	effect
compose	comprise
delegate	relegate
discreet	discrete
ensure	insure
parable	parabola
principal	principle
proposal	proposition
sensible	sensitive

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Sticky words

These are words that stick in the reader's mind, so they should be used sparingly. For example, *also*, *but*, and *now* should not be used more than once within a paragraph.

Problem Words and Phrases

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Both have the same meaning. Trust your ear.

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as well as

This is not a perfect synonym for *and*. Use it only if you can replace it with *in addition to*.

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cannot

The negation of *can* is normally spelled as one word.

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To is correct if we want emphasize the similarities—e.g., *He compared Napoleon to Charlemagne*.

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e.g. vs. i.e.

Do not confuse these. They mean "for example" and "that is," respectively. In American English, but not in British English, they are followed by a comma.

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good, bad

Instead of telling the reader why something is good or bad, tell them *why* it is good or bad.

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in general

Often the phrase means "almost always," but sometimes it means "always." Be careful in mathematical contexts that require precision.

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-like vs. -style

Compare Ada is a Pascal-like language and Ada has a Pascal-style syntax.

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prior to

This is a needless, pompous variant of *before*.

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thusly

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trivial

Do not use it as a synonym for *easy*. Similarly, avoid euphemisms such as *highly nontrivial* (for *difficult*).

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utilize, utilization

Both are needless, pompous variants of use.

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The books that I bought yesterday were boring (restrictive) is correct. The books, which I bought yesterday, were boring (nonrestrictive) is correct. The books which I bought yesterday were boring (restrictive) is controversial. The books, that I bought yesterday, were boring (nonrestrictive) is wrong. Searching for controversial (or "wicked") which's is called "which hunting."

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whom vs. who

Prefer *whom* to *who* for the object case—e.g., *for whom the user's manual is designed*.