

Thought Process

A Language is a system of signals for expressing Complete Thoughts.

A Thought is the connection of two Ideas. Ideas are connected in order to assign some action or property to something. “A is B” and “A does B” are both Thoughts, while “A” and “B” individually are Ideas.

Ex. Teacher Doug is good.

^-- Idea (Teacher Doug) + Idea (good) = Thought (Teacher Doug is good.)

To create a Thought, we must identify both of the Ideas being connected, and then signal which one is taking the other as one of its properties. The Idea taking the property is said to be “playing the role of Subject”, and the Idea being assigned as a property is said to be “playing the role of Modifier”.

Ex. **Teacher Doug** is good. <-- **Subject is bold**, Modifier is underlined.

A Complete Thought is a Thought that is *being used* to draw some Logical Conclusion or Logical Response. These can be called Logical Effects of the Thought.

Complete Thought: It's cold outside.

Logical ↓ Effect

Conclusion: I should put on a coat.

Logical ↓ Effect

Response: (Puts on coat.)

The Logical Effects of any Complete Thought happen along a chain that we call a Thought Process. Each Logical Conclusion is another Complete Thought, which leads to another Conclusion, and so on.

A real Thought Process doesn't really have a beginning or end, but we can break it into segments by beginning with an Observation, and culminating with some Logical Response. In conversation, the Observation will include some speaker's Expression.

An Expression is just a Complete Thought that is being signaled for some Purpose. The Purpose of the Expression is to lead the listener or listeners down a path of Logical Conclusions until they arrive at a Desired Conclusion or Response (or both).

Expression: “It’s cold outside.”



Observation: Susie said it’s cold outside, while sounding serious.

Logical ↓ Effect

Conclusion: It’s probably cold outside.

Logical ↓ Effect

Conclusion: I should put on a coat.

Logical ↓ Effect

Response: (Puts on coat.)

In practice, the listener will make many **Observations**. Those **Observations** which are deemed relevant to the **Expression** can be called **Context**. The **Context** is then combined with the **Expression** to make a single, **Contextualized Observation**. (That’s how we got the initial, multi-part **Observation** in the example above.)

If we think of our memories and beliefs as things we can observe, *all* **Complete Thoughts** can be counted as **Observations**. However, when diagramming a **Thought Process**, it is easier to think of the first **Complete Thought** in the chain as the **Observation**. This could be a **Contextualized Observation** of an **Expression**, like above, or perhaps some other “eureka” moment.

Observation: I just realized I left the stove on!!!

Logical ↓ Effect

Response: (Runs to kitchen.)

This **Observation** is also a **Conclusion** of several previous **Observations** (like smelling smoke and hearing the oven timer going off), but since it sets in motion a torrent of *subsequent* **Conclusions** and **Responses**, we might find it useful to mark it as the **Observation** that begins our **Thought Process**.

Thought Process in Conversation

In regards to **Thought Process**, a basic conversation might go something like this:

1. Speaker desires a particular **Response** from the listener.
2. Speaker makes an **Expression**, with the **Purpose** of causing that desired **Response**.
3. Listener makes **Observations** of speaker’s **Expression**, and any relevant **Context**.
4. These **Observations** combine to lead the listener to a **Logical Conclusion**.
5. This **Logical Conclusion** may lead to any number of *further* **Logical Conclusions**.

6. Eventually, one of these **Conclusions** causes a **Logical Response** from the listener.
7. In conversation, the **Response** will often cause the roles of speaker and listener to reverse, with the second person now making *their own* **Expression**, and trying to get *their own* desired **Response**. In many cases, the listener will send messages with their body language *while* they are listening; which means that on some level, *both* participants are playing “speaker” and “listener” at the same time.

A person’s **Thought Process** can be quite complex, but in daily interactions they tend to be predictable. In fact, being able to predict another person’s **Thought Process** is what makes communication possible.

Ex. (*Your 5 y.o. daughter says*) I got a gold star at school today! <-- **Expression**

If your daughter says something like this, she is not saying it for no reason. She probably expects (and hopes) that you will *respond* to her **Expression** by praising her, which makes her feel good. This is an example of someone *guessing* your **Thought Process**, and then designing an **Expression** to get a particular **Desired Response**.

Expression: I got a gold star at school today!



Observation: My daughter (who is soooo cute!) just said “I got a gold star at school today!”



Conclusion: Being awarded a gold star is a rare (and cute!) accomplishment for her.



Conclusion: I am proud of my (cuuuute!!) daughter’s accomplishment, happy she told me about it, and want to encourage her further. (Did I mention she’s cute??)



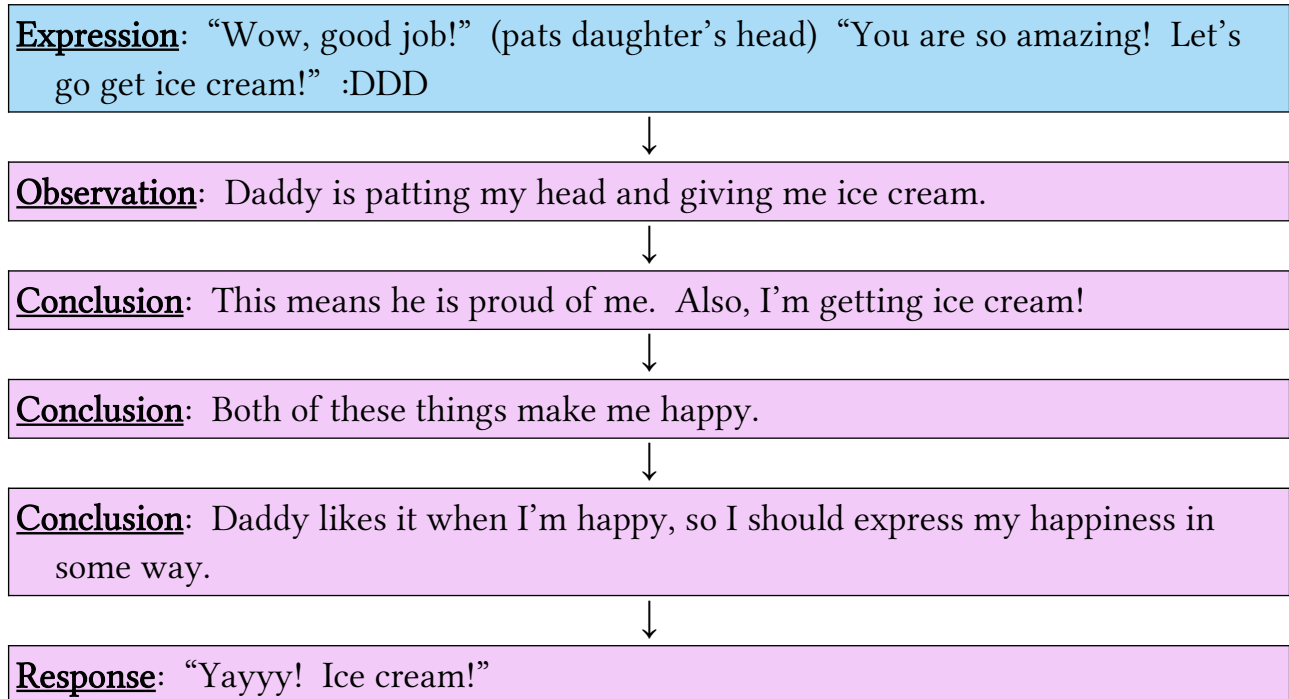
Conclusion: I should express my approval in some way. (While eliciting a cute reaction; because, why not?)



Response: “Wow, good job!” (pats daughter’s head) “You are so amazing! Let’s go get ice cream!” :DDD

Your daughter predicted (and hoped for) a **Response** like this. Thus it can be said that this was the **Purpose** of her **Expression**.

Again, there is no end to the **Thought Process** of either person, but in conversation people will usually base *their* **Response** off of the *other* person's **Response**, so it's easiest to represent this visually by showing the **Thought Process** switch back and forth between the two people.



A lot of these **Conclusions** are arrived at subconsciously (your daughter doesn’t think deeply about *why* she tells you things), but the point here is that every **Expression** has a **Purpose**, and also that every **Observation** flows naturally to a **Response**.

- Ex. Please take a bath now. <-- **Purpose** is to cause the listener to take a bath.
- Ex. I’m ready to leave. <-- **Purpose** is to get the listener to leave with you.
- Ex. Is the test tomorrow? <-- **Purpose** is for the listener to give you info.
- Ex. I like pistacio gelato. <-- **Purpose** is pleasant interaction with the listener.
- Ex. Hello! <-- **Purpose** is to regard the listener, and to be regarded in return.

All **Responses** will have a **Purpose** of course, including actions. But since we are studying **Language**, we will generally only focus on **Responses** which include **Spoken** or **Written Expressions**. (Actions don’t usually need to be translated, even when they are intended as **Expressions**, because their meanings tend to be universal.)

Reasoning

Reasoning is how we progress logically from one **Complete Thought** to the next. A **Thought Process** will use a combination of both **Truth-based Reasoning**, in which a **Belief** is proven *true*, and **Effect-based Reasoning**, in which a **Belief** is proven *useful*.

Both of these types of **Reasoning** are important in our daily lives. However, for the purpose of studying **Language**, we do not need to distinguish between the two. In communication, we are more interested in understanding what someone's **Thought Process** *is*, and *predicting* what it *will be* upon observing our **Expression**. We are *not* concerned so much about how someone's **Thought Process** might be *improved*.

Expressions with Multiple Complete Thoughts

Some **Expressions** may contain multiple **Complete Thoughts**.

Ex. I don't know where your dumb doll is.

This **Expression** contains two **Complete Thoughts**. (1) "I don't know where your doll is," and (2) "I think your doll is dumb." The listener can then respond to either one.

Ex. I don't know where your dumb doll is. // But you had it last!

Ex. I don't know where your dumb doll is. // My doll is not dumb! YOU'RE dumb!

Thoughts vs. Complete Thoughts

Sometimes, information that was not *intended* as a **Complete Thought** may be *interpreted* as one by the listener.

Ex. I didn't know that the test was tomorrow. // The test is tomorrow?? :O

Here, the speaker only intends to express *one* **Complete Thought**, but the listener observes *two*. (1) "My friend just learned the test is tomorrow," and (2) "The test is tomorrow!" Why does this happen?

It happens because **Complete Thoughts** tend to be *new information*. Something you already know won't have a **Logical Effect** on you, because that should have already happened when you originally learned the information. In the example above, the speaker thought there was only *one* piece of information in her **Expression** that the listener didn't already know. But it turns out there were *two*; and the unexpected one just so happened to be more important to the listener.

The Perceived Purpose & Minimum Response

In conversation, the listener can make any number of **Observations** during the speaker's **Expression**. However, it is considered polite, regardless of language, for the

listener's **Response** to address *what the speaker actually said*. Or more specifically, what the listener *perceives* as the **Purpose** of the speaker's **Expression**. That means one of the jobs of the listener is to determine what that "**Perceived Purpose**" is.

Ex. The new Precure movie is this weekend! // Sorry, my family is going on a trip. :(
^ The listener responds to the **Perceived Purpose**, which is to invite her to the movie.

The speaker, upon making an **Expression**, will usually expect some kind of **Response** from the listener that addresses the **Purpose** of their **Expression**. Even if the listener cannot give the speaker the **Response** they were *hoping* for (their **Purpose**), a **Minimum Response** will at least acknowledge that the speaker's desire is understood.

Ex. You should get a haircut. // But I like the scruffy look.

The Expected Response

Often times the **Response** which is *hoped* for is also the **Response** which is *expected*. For instance, when you say "Hello" to someone, you *expect* them to say "Hello" back. We can call this the **Expected Response**.

The **Expected Response** can be anything within a range of **Responses**, from the **Desired Response** (aka **Purpose**) to at least some **Minimum Response**. Generally the **Expected Response** is easily understood by the listener, and it is considered polite in all cultures to stay within its parameters.

That said, sometimes some other **Observation** will jump out as being more relevant to the listener, compelling them to respond to *that* new information instead.

Ex. I didn't know the project is due tomorrow. // Wait, the project is due tomorrow!?

The speaker's **Purpose** with this **Expression** is to explain to her friend the source of her stress, and perhaps that she won't have time to hang out today. The **Expected Response** could be anything from an offer to help, to an expression of empathy.

However, the listener signifies with "Wait" that she is not going with one of these **Expected Responses**, because *another* piece of information was so significant that it took precedence. That is, of course, the fact that the project is due *tomorrow*, which is news to the listener as well! ("Excuse me..." and "Sorry, but..." are some other common **Expressions** you might hear from someone who is about to deviate from the list of **Expected Responses**.)

Logical Effects Depend On the Observer

It probably goes without saying, but sometimes the Expected Response will be different from the actual one, because the speaker misjudged the Logical Effect an Expression would have on that particular listener.

Ex. You look cute today. // Sexual harrassment!!

Ex. Will you marry me? // Ew. No. (Barf.)

Incomplete Thoughts?

While it's difficult to imagine *having* a Thought that is "incomplete", it is quite common to *observe* an Expression "incompletely", which I suppose could be called an "Incomplete Thought". When someone observes an Expression incompletely, they will attempt to "fill in the blanks" in order to make it into a Complete Thought.

Ex. Blah blah blah CHICKEN blah blah blah. // Oh, you want some chicken?

In this example, the speaker might be a foreigner, struggling to say something in English; or perhaps there is a parade nearby that makes it hard to hear.

Ex. Meow! // Aww, are you hungry? Mommy will get you some fish. <3

Even though it isn't *human* language, you might be able to understand some of the Expressions of your pet cat. In this case, "meow" translates to "Feed me, slave." As long as you can understand the Purpose of the Expression, it can be considered a Complete Thought. Now, if your cat meows at you, and *you can't figure out why*, it would be "stuck" as an Incomplete Thought to you, even though it is a Complete Thought from the perspective of your kitty.

Ex. Today will be cloudy. // Okay...so what?

In this example, we don't know why it's important that today will be cloudy. Is there some reason the speaker is giving us this information? Even though the Thought itself is easy to understand, as long as we cannot determine the Purpose of the Expression, it will remain an Incomplete Thought.

Ex. Flibbity-floo!

If a child or insane person says something completely non-sensical to you, they might be doing it just to see how you react. Since the actual Expression doesn't indicate

anything that can be considered a Thought, and you cannot understand the Purpose of the Expression, this would be considered an Incomplete Thought. However, what if your child says, “Daddy, when I say ‘flibbity-floo’, you are supposed to turn into a frog!”? Now “flibbity-floo” would be considered a Complete Thought, wouldn’t it?

~~~ Review ~~~

Today we learned the following terms:

Language ~ A system of signals for expressing Complete Thoughts.

Thought ~ Created when two Ideas are connected, in order to assign some action or property to something. “A is B” and “A does B” are both Thoughts.

Idea ~ Any concept that can be commented on, or used to comment on something else. If you can say “A is B” or “A does B”, then both “A” and “B” are Ideas.

Subject ~ Role played by an Idea in a Thought, in which the Idea is assigned some property.

Modifier ~ Role played by an Idea in a Thought, in which the Idea is assigned as a property of some other Idea.

Complete Thought ~ A Thought being used for its Logical Effect.

Logical Effect ~ A Logical Conclusion or Logical Response that is brought about by observing a Complete Thought.

Logical Conclusion (aka Conclusion) ~ A Complete Thought that is observed as the logical consequence or result of the Complete Thought which precedes it.

Logical Response (aka Response) ~ A reaction by the observer of a Complete Thought, which is a direct result of observing that Complete Thought.

Expression ~ A Complete Thought, which is represented with signals (Language), and expressed for some Purpose.

Purpose ~ Whatever Conclusion(s) or Response(s) the speaker is trying to elicit from the listener with their Expression.

Desired Response ~ The Response or Responses from the targeted listener or listeners, which the speaker is trying to elicit with their Expression.

Desired Conclusion ~ A change to the listener’s beliefs that is the Purpose of an Expression. Sometimes this is more valuable than an immediate Response, because changing someone’s beliefs can bring about any number of Desired Responses from that person in the future.

Observation ~ The Complete Thought which can be marked as the beginning of an observer’s Thought Process.

Context ~ Additional **Observations** that assist the observer in interpreting some “primary” **Observation**. These combine intuitively into a single, **Contextualized Observation**. (In **Language**, the “primary” **Observation** is usually an **Expression**.)

Contextualized Observation ~ The result of combining multiple **Observations** into one.

Thought Process ~ The chain of **Complete Thoughts** leading from an **Observation** to a **Logical Response**. Also any chart used to visually represent this.

Reasoning ~ The method used to progress logically from one **Complete Thought** to the next. That is, from a **Complete Thought** to its **Logical Conclusion**.

Truth-based Reasoning ~ **Reasoning** based on whether a belief can be proven *true*.

Effect-based Reasoning ~ **Reasoning** based on whether a belief can be proven *useful*.

Named so because it is used to choose beliefs based on the **Logical Effect** they have on the observer. (For example, believing what makes you happy.)

Perceived Purpose ~ The **Desired Conclusion(s)** and/or **Response(s)** that the listener believes are the **Purpose** of the speaker’s **Expression**.

Minimum Response ~ Any one of a number of possible **Responses** from the listener that are seen as addressing the speaker’s original **Expression**.

Expected Response ~ The **Response** that the speaker predicts the listener will make in response to their **Expression**.

Incomplete Thought ~ An **Observation** that cannot progress to a **Logical Conclusion**.

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Today we learned about **Complete Thoughts**. We learned that **Complete Thoughts** progress logically toward other **Complete Thoughts**, called **Conclusions**, eventually reaching some **Response**. Every **Expression** has the **Purpose** of eliciting one or more **Conclusions** or **Responses** from the listener.

We also learned the difference between a speaker’s **Expression** and a listener’s **Observation**. Both **Expressions** and **Observations** are **Complete Thoughts**. However, an **Observation** usually includes additional information not expressed by the speaker, called **Context**. The speaker needs to take this into account when making their **Expression**, or the listener’s **Conclusion** (and **Response**) may turn out differently from what the speaker intends.

For a **Thought** to be “complete”, there must be some kind of **Logical Conclusion** that can be drawn from it. Even if you understand what someone says in a *literal* sense, you have not observed a **Complete Thought** unless you can determine its **Purpose**.

In the next lesson, we will learn how **Thoughts** and **Ideas** are stored in the mind.