Programming Language Concepts

Languages

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Contents Levels of description

1 Levels of description

Three levels of description:

•	grammar	which	sentences	are	correct
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- semantics what do correct sentences mean?
- pragmatics | how do we use meaningful sentences?

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Examples:

- Sweet love you me.
- •

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 Your person loving myself is a fact that I would qualify as being sweet.

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Examples:

•	Sweet love you me.	incorrect grammar-wise
•	It's sweet that you love me.	correct
•	Your person loving myself is a fact	correct but not very
	that I would qualify as being sweet.	idiomatic

- grammar: static
- semantics: dynamic
- pragmatics: human

- grammar: static compile time
- semantics: dynamic
- pragmatics: human

- grammar: static compile time
- semantics: dynamic compile / runtime
- pragmatics: human

- grammar: static compile time
- semantics: dynamic compile / runtime
- pragmatics: human code-writing time