

# Graphene: A Context-Preserving Open Information Extraction System

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**or how to avoid sending an innocent man to prison...**

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*⟨I; shot; hundreds of people⟩*

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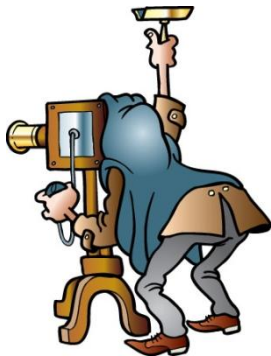
**or how to avoid sending an innocent man to prison...**

*"Since I started my career as a professional photographer, **I shot hundreds of people** to make a living, using my DSLR camera."*

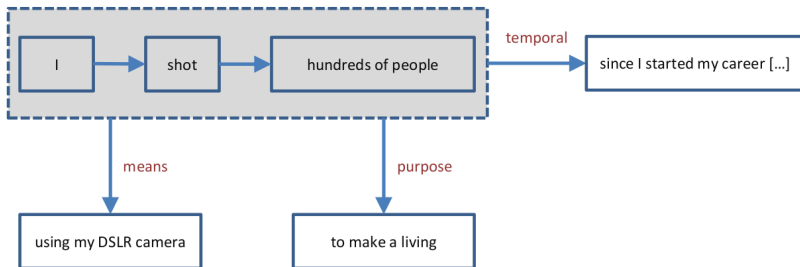
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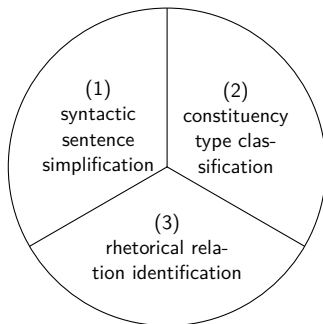
*⟨I; shot; hundreds of people⟩*



## Lightweight semantic representation:

- ▶ **two-layered hierarchy** of core relational tuples and accompanying contextual information that are
- ▶ **semantically-linked** via rhetorical relations

## ► Stage 1: **Transformation**



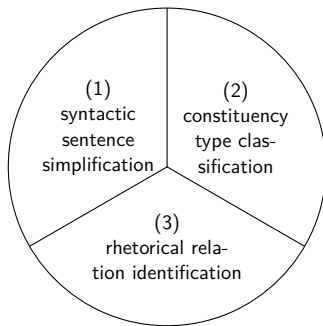
⇒ discourse tree

## ► Stage 2: **Relation Extraction**

⇒ semantically linked propositions



## ► Stage 1: **Transformation**



⇒ discourse tree

## ► Stage 2: **Relation Extraction**

⇒ semantically linked propositions