SurveyPad, a common interface to GEODE & data processing tools

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Agenda

1. Introduction
2. Objectives
3. Architecture
4. Parsers and grammars
5. Features
6. Future prospects
7. Conclusions
1. Introduction

Software X format  ≠  Software Y format
2. Objectives

- One simple single interface
- Facilitation of editing survey project files
- Interoperability between any survey software
3. Architecture
3. Architecture

- Plugin
3. Architecture
3. Architecture

- **SurveyPad**
  - Plugin loading and project management.
  - Handling general settings and the ones specific to plugins.
  - Displaying the graphical interface provided by a plugin.
  - Logs handling and display.
3. Architecture

- Implementation
4. Parsers and grammars

1. \( S \rightarrow S + S \)
2. \( S \rightarrow 1 \)
3. \( S \rightarrow a \)
4. Parsers and grammars

Table: lgcinputlexerio.cpp

| FIRSTPOINT | 1 2 3 |
| SECONDPOINT | 2 3 4 |
4. Parsers and grammars
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5. Features

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5. Features
6. Future prospects

- Processing software data serialization

- 2D/3D data visualization

- Direct web communication with GEODE
7. Conclusions

- Well-designed, easy to maintain software
- Simplified surveyor data analysis workflow with advanced editing features
- Positive feedback for 7 developed plugins
- More things to come
Thank you