Pain

- Reading code

So many control flow changes :(
Pain

- Reading code
- So many control flow changes :(
Pain

- Reading code
- So many control flow changes :(  
- Identifying abstract concepts
Pain

- Reading code
- So many control flow changes :
- Identifying abstract concepts

difference

- Understanding code $\rightarrow$ recognizing design pattern
Pain

- Reading code
- So many control flow changes :(
- Identifying abstract concepts

difference

- Understanding code $\rightarrow$ recognizing design pattern
- Using design pattern $\rightarrow$ understanding code
Solution

Bridging the gap from abstraction to implementation.
1. Generation of basic control flow graph (with given tools?)
Approach

1. Generation of basic control flow graph (with given tools?)
2. Design pattern detection: ML
Approach

1. Generation of basic control flow graph (with given tools?)
2. Design pattern detection: ML
3. Generation of visualization
Approach

1. Generation of basic control flow graph (with given tools?)
2. Design pattern detection: ML
3. Generation of visualization

Risks/challenges

... ML!