

# 1 main — MIR Walkthrough

**Purpose:** TODO: Describe why this walkthrough exists

## 1.1 Source Context

```
fn main() {
    let a:Option<u32> = Some(42);
    let b:Option<u32> = None;
    let c:u32 = a.unwrap();
}
```

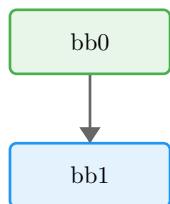
## 1.2 Function Overview

- **Function:** main
- **Basic blocks:** 2
- **Return type:** ()

## 1.3 Locals

Local	Type	Notes
0	()	Return place
1	std::option::Option<u32>	
2	std::option::Option<u32>	
3	u32	

## 1.4 Control-Flow Overview



## 1.5 Basic Blocks

### 1.5.1 bb0 — entry

*Entry point of the function.*

MIR	Annotation
\_1 = Option::Some(42)	Construct aggregate
\_2 = Option::None()	Construct aggregate
→ \_3 = unwrap(\_1) → bb1	Call unwrap

### 1.5.2 bb1 — return / success

*Normal return path.*

MIR	Annotation
→ return	Return from function

## 1.6 Key Observations

TODO: Add bullet points summarizing what this MIR teaches

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## 1.7 Takeaways

TODO: One or two sentences to generalize this example

