

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();  
}
```

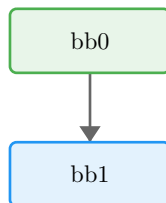
1.2 Function Overview

- **Function:** main
- **Basic blocks:** 2
- **Return type:** () (0 bytes, align 1)

1.3 Locals

Local	Type	Notes
0	() (0 bytes, align 1)	Return place
1	std::option::Option<u32> (8 bytes, align 4)	
2	std::option::Option<u32> (8 bytes, align 4)	
3	Uint(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

