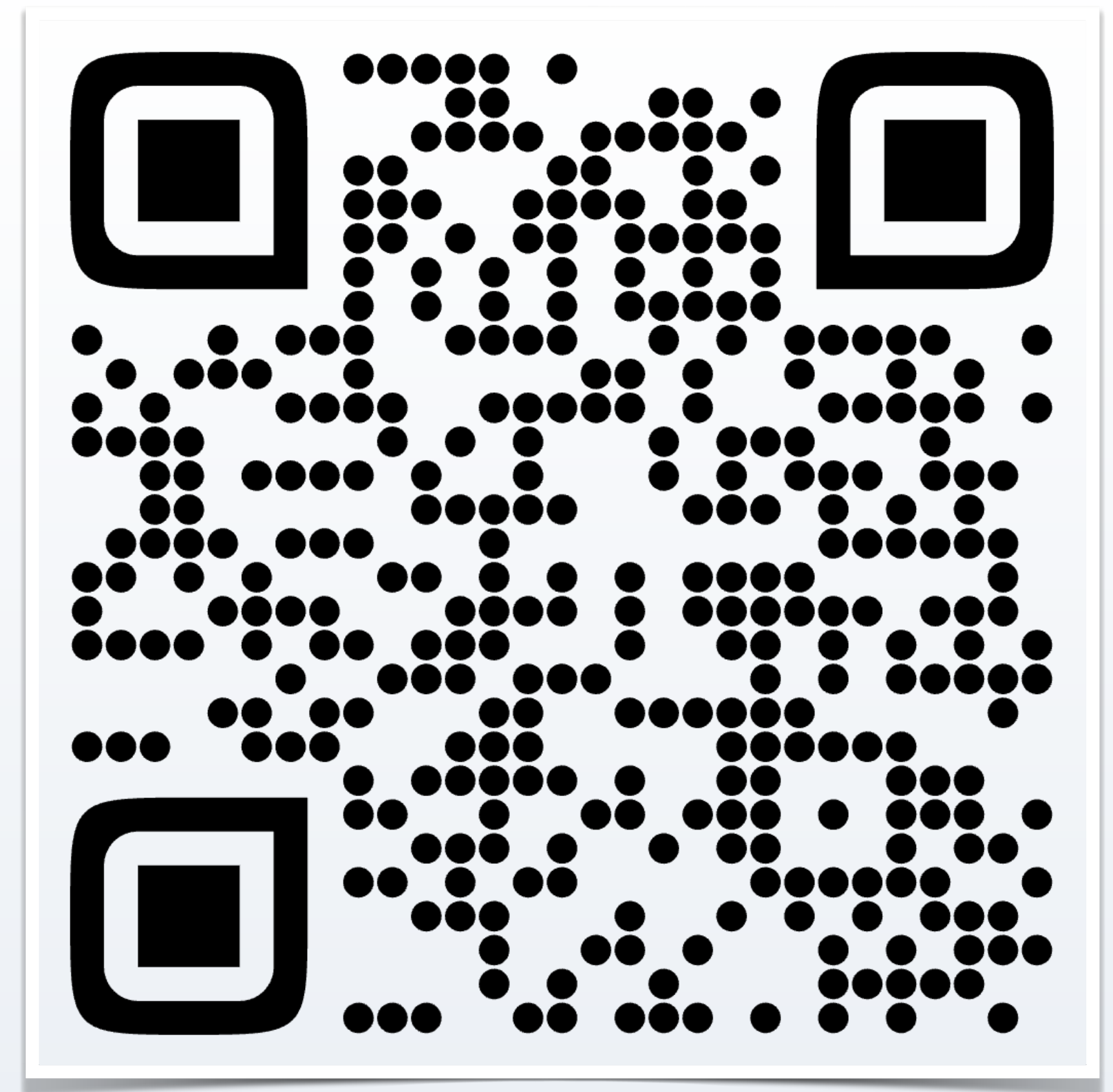


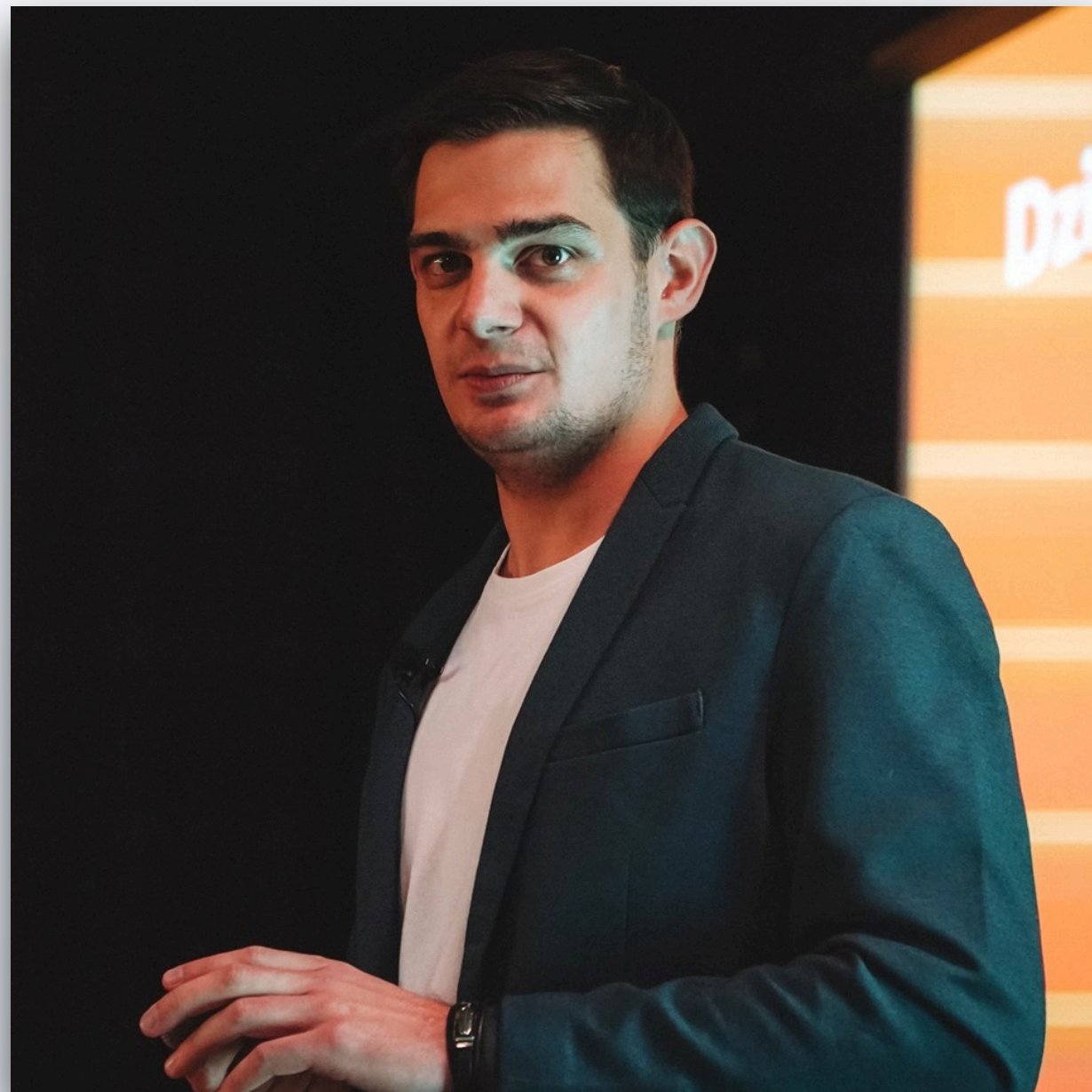
TypeSecrets



Marek Chrapek



Who?



Marek Chrapek

Technical Leader



Warning!





Interface vs Type

Interface vs Type



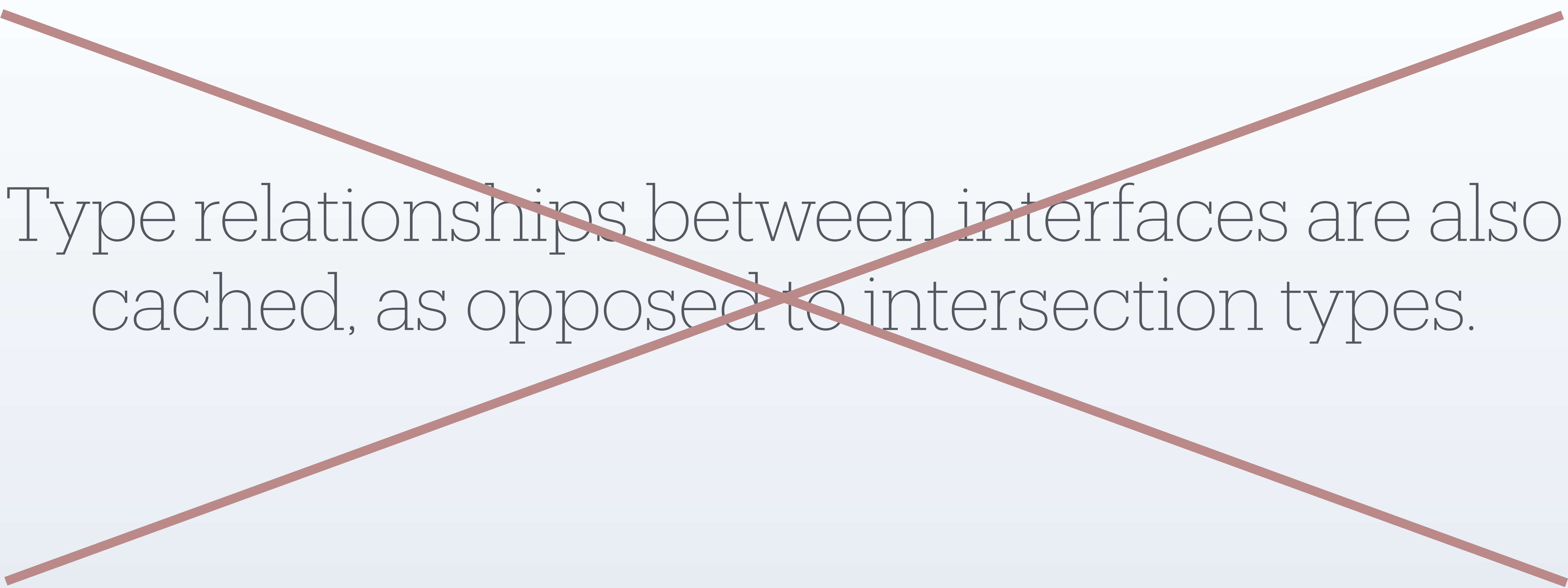
```
type Point = {  
  x: number;  
  y: number;  
};
```



```
interface Point {  
  x: number;  
  y: number;  
}
```

Phase 1

Type relationships between interfaces are also cached, as opposed to intersection types.



Type relationships between interfaces are also
cached, as opposed to intersection types.



Phase 2

“Nie ważne jak byleby konsystentnie”
~ Architekt oprogramowania



Phase 3

Interface vs Type

Type `['metadata', 'aaa']` is not assignable to type `['id'] | ['id', ...any[]] | ['title'] | ['title', ...any[]] | ['metadata'] | ['metadata', 'created'] | ['metadata', 'created', unique symbol] | ['metadata', 'created', 'toString'] | ... 44 more ... | [...]`.

Type `['metadata', 'aaa']` is not assignable to type `['metadata', 'created'] | ['metadata', 'publisherId'] | ['metadata', 'publisherId', ...any[]]`.

Type `['metadata', 'aaa']` is not assignable to type `['metadata', 'created']`.

Type at position 1 in source is not compatible with type at position 1 in target.

Type `"aaa"` is not assignable to type `"created"`.

Interface vs Type

TS2322: Type `["metadata", "aaa"]` is not assignable to type

```
["id"] | ["id", ...any[]] | ["title"] | ["title", ...any[]] | ["metadata"] | ["metadata", "created"] | ["metadata", "created", unique symbol] | ["metadata", "created", "toString"] | ... 44 more ... | [...]
```

Type `["metadata", "aaa"]` is not assignable to type

```
["metadata", "created"] | ["metadata", "publisherId"] | ["metadata", "publisherId", ...any[]]
```

Type `["metadata", "aaa"]` is not assignable to type `["metadata", "created"]`

Type at position 1 in source is not compatible with type at position 1 in target.

Type `"aaa"` is not assignable to type `"created"`

[Remove unused constant 'description'](#)  [More actions...](#) 

```
const description: ["id"] | ["id", ...any[]] | ["title"] | ["title", ...any[]] | ["metadata"] | ["metadata", "created"] | ["metadata", "created", typeof Symbol.toPrimitive] | ["metadata", "created", "toString"] | ... 44 more ... | []
```

src/04_recursion_solution.ts





Phase 4

Interface merging



```
interface Person {  
  name: string  
  age: number  
}
```

Interface merging



```
interface Person {  
  name: string  
  age: number  
}
```

```
interface Person {  
  aggregateId: string  
}
```


Interface merging



```
interface Person {
```

```
  name: string
```

```
  age: number
```

```
}
```

```
interface Person {
```

```
  aggregateId: string
```

```
}
```

Interface merging



```
interface Person {
```

```
  name: string
```

```
  age: number
```

```
}
```

```
interface Person {
```

```
  aggregateId: string
```

```
}
```

Interface merging



```
const person: Person = {  
  name: 'Marc',  
  age: 10,  
  aggregateId: '1b21a691'  
}
```

Types



Use types by default, and interfaces only
when necessary.



Dziękuję

