PRIVACY BY DEFAULT IN A DJANGO APP

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THE MISSION

HOW TO IMPLEMENT PRIVACY BY DEFAULT

IN AN EXISTING DJANGO APP

A VERY BAD EXAMPLE

INFO 2019-04-11T12:14:58.042793+02:00 ExampleLogger
Updated customer details for customer.reference=000256 : Their email is ada@gmail.com, their phone number is +33.140302010, they were born 1984-01-24, their additional details are {'door_code': 'A1234'}

THAT'S BETTER

INFO 2019-04-11T12:14:58.042793+02:00 ExampleLogger
Updated customer details for customer.reference=000256 : Their email is REDACTED@redacted.gdpr, their phone number is +1.55500000, they were born 2000-01-01, their additional details are {'REDACTED key': 'REDACTED value'}

WRAPPERS : AN EXAMPLE FOR STR

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VARIABLE: name

TYPE: str

"Jean-Michel"

WRAPPERS : AN EXAMPLE FOR STR

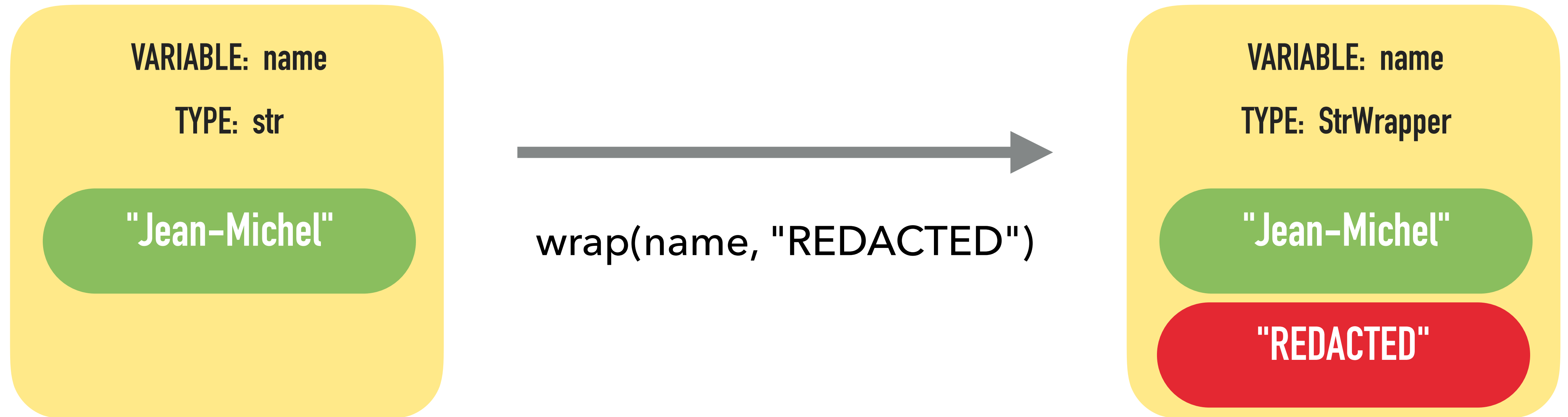VARIABLE: name

TYPE: str

"Jean-Michel"

wrap(name, "REDACTED")

WRAPPERS : AN EXAMPLE FOR STR

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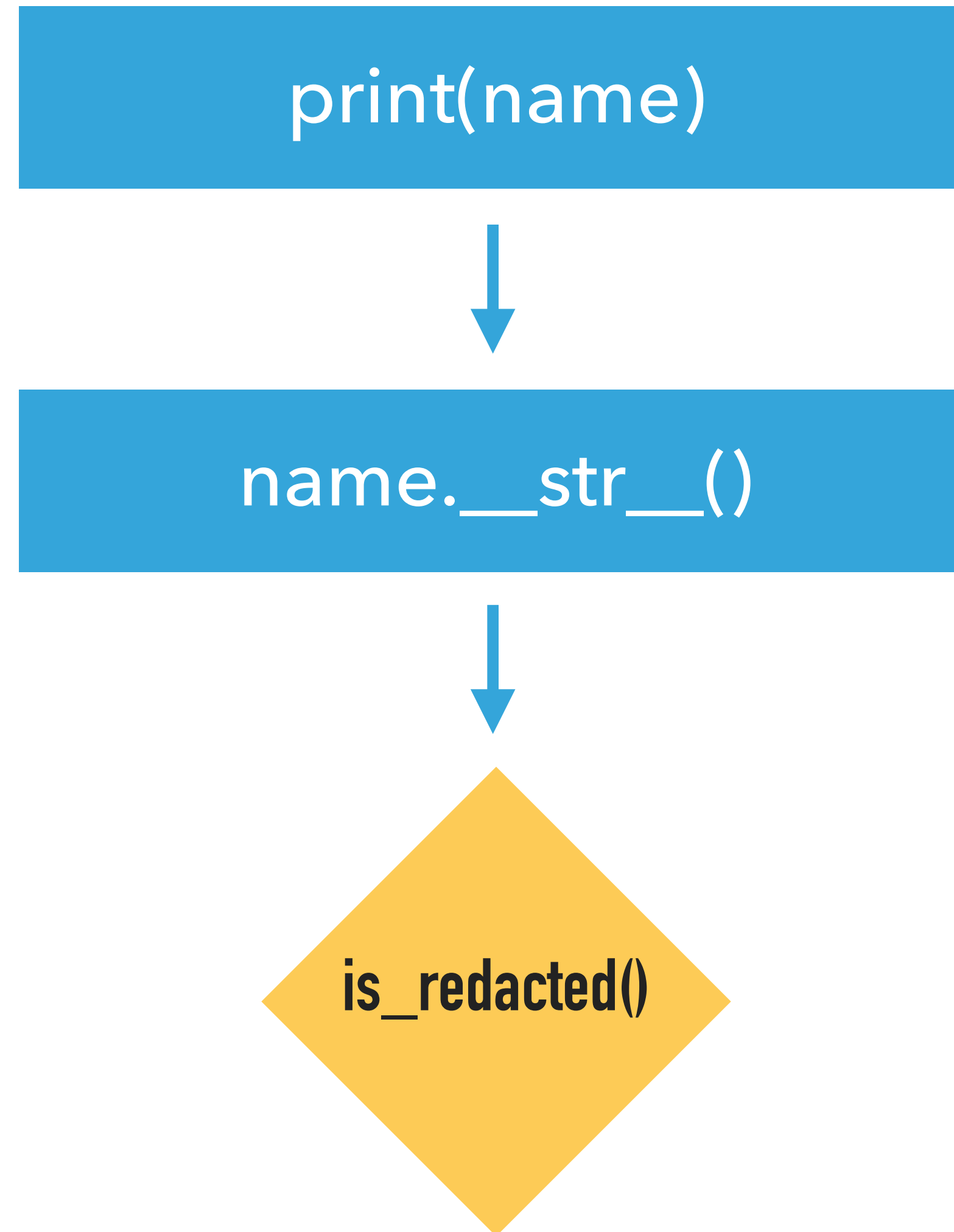
WRAPPERS : AN EXAMPLE FOR STR
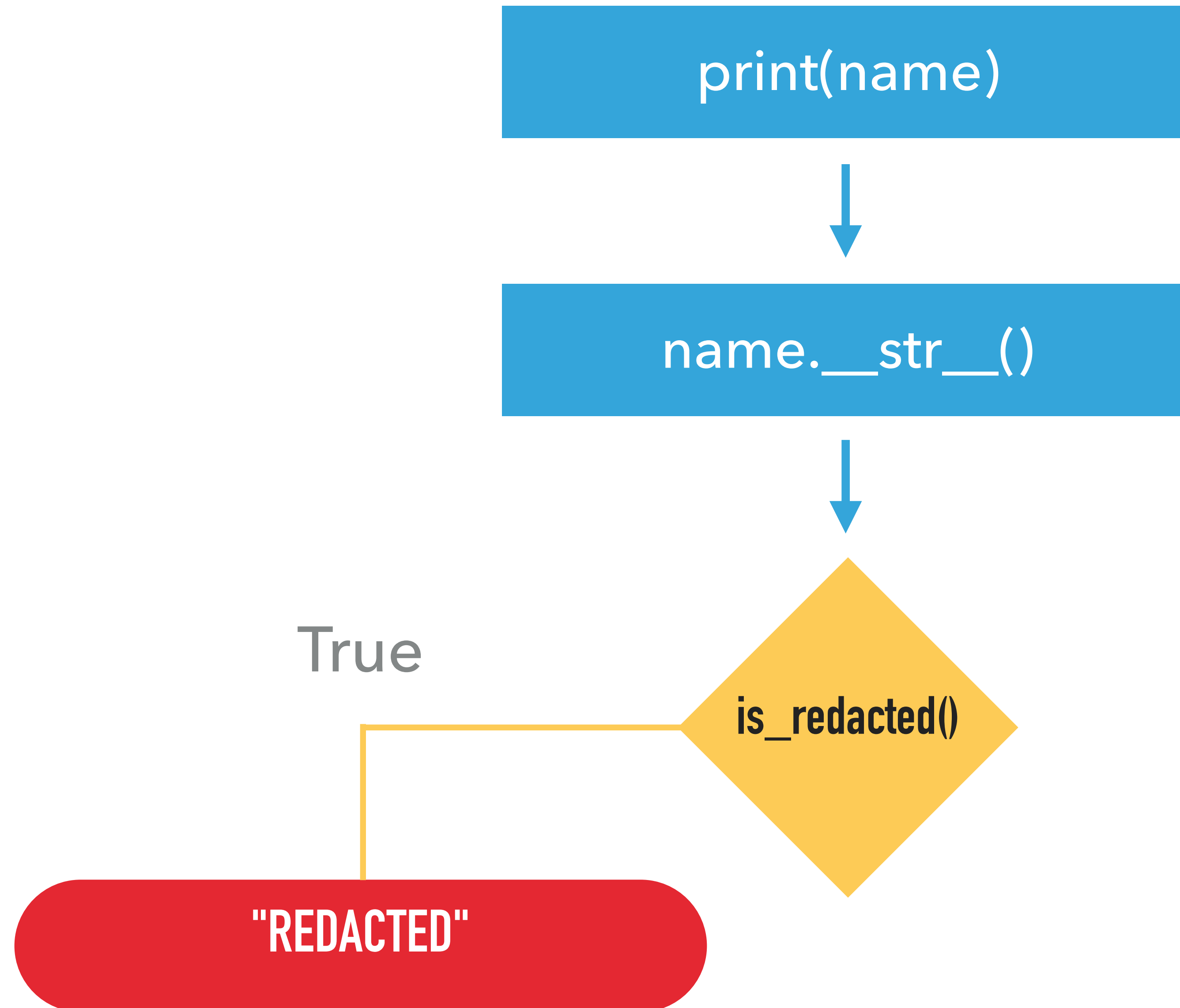
print(name)

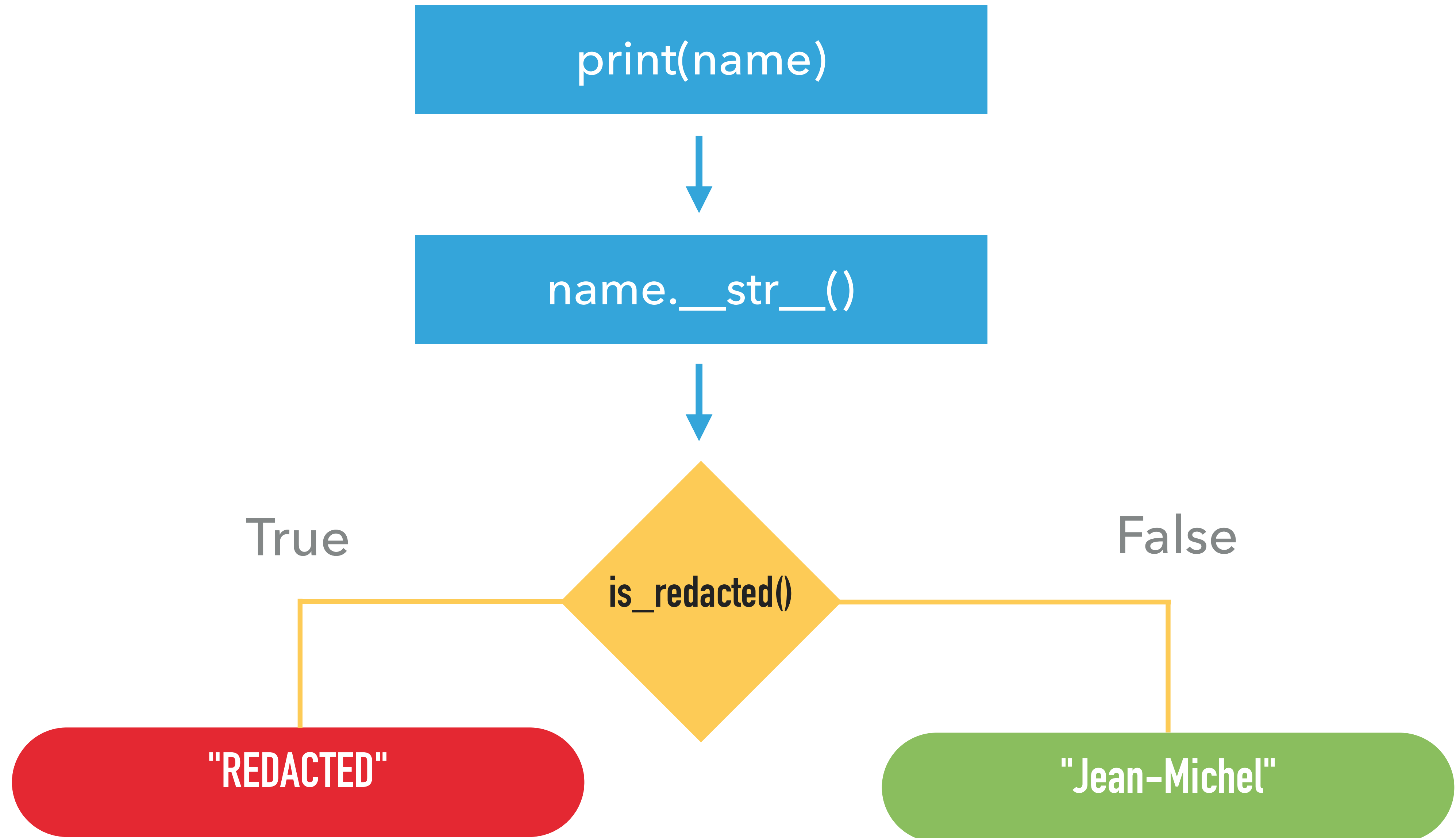# WRAPPERS : AN EXAMPLE FOR STR

print(name)

name.__str__()

WRAPPERS : AN EXAMPLE FOR STR

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FIELD MIXIN

FIELD MIXIN

Database

TABLE: NAME

TYPE: VARCHAR

"Jean-Michel"

FIELD MIXIN

Field

Database

VARIABLE: NAME

TYPE: PD_CHARFIELD
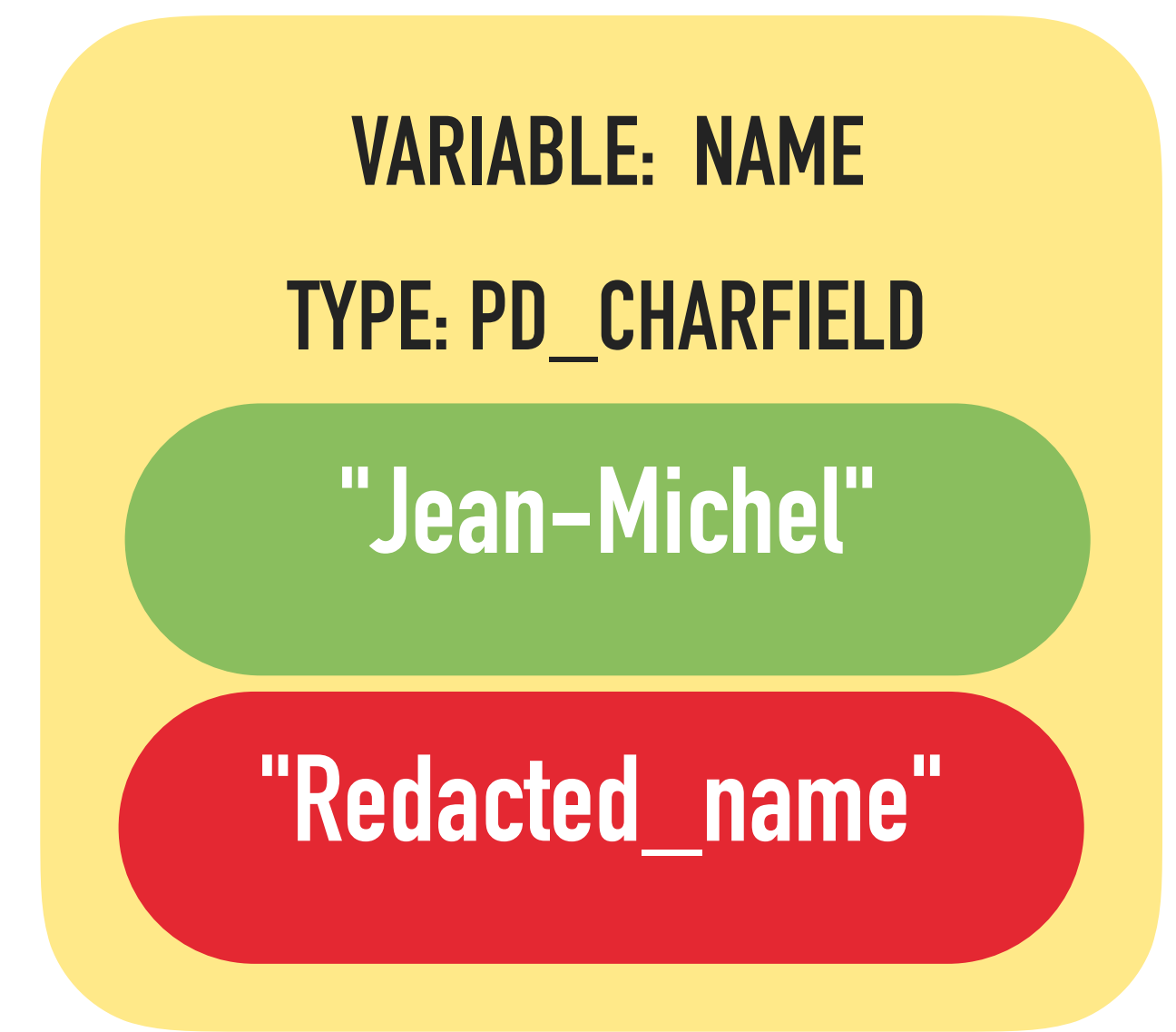
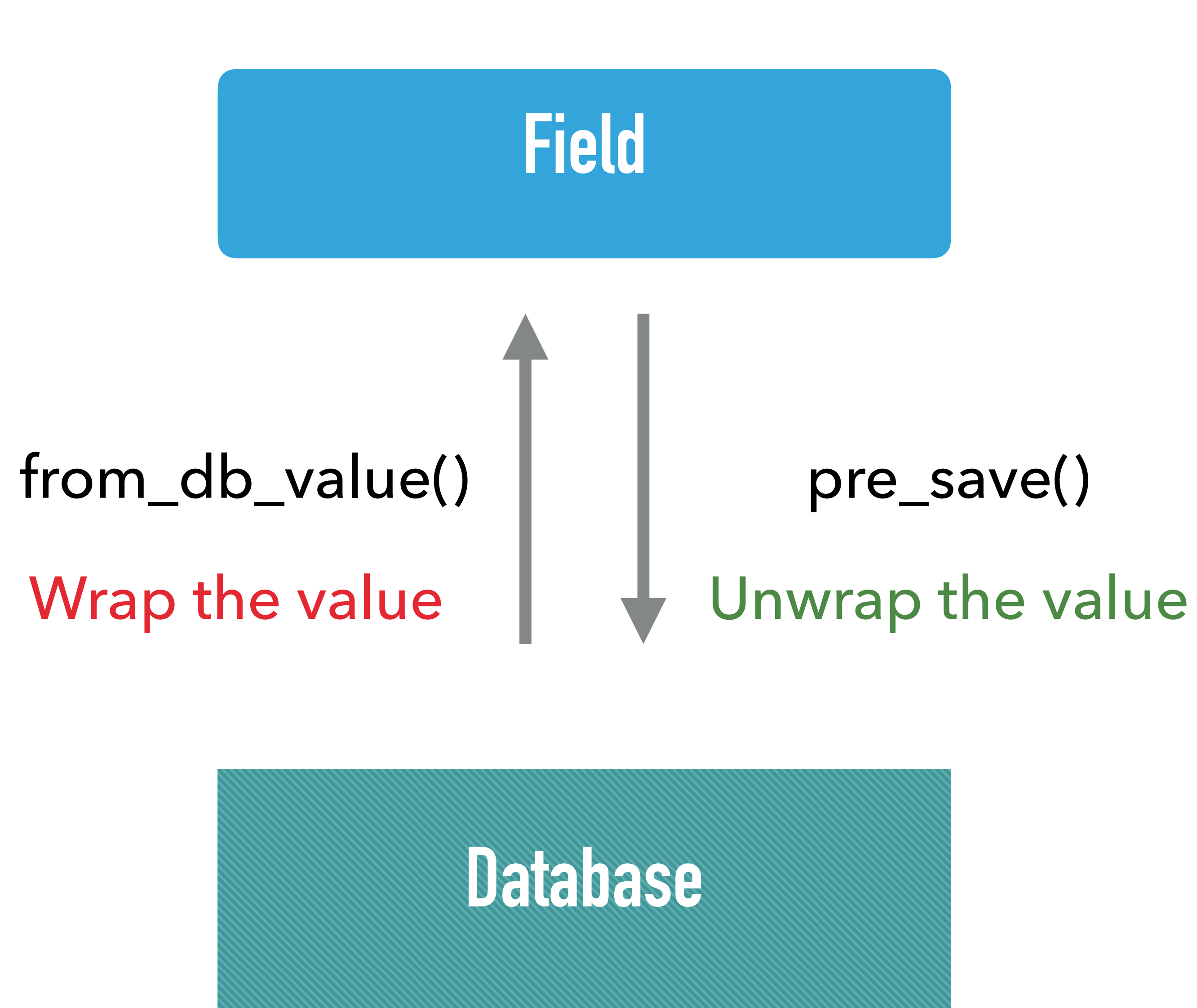"Jean-Michel"

"Redacted_name"

TABLE: NAME

TYPE: VARCHAR

"Jean-Michel"

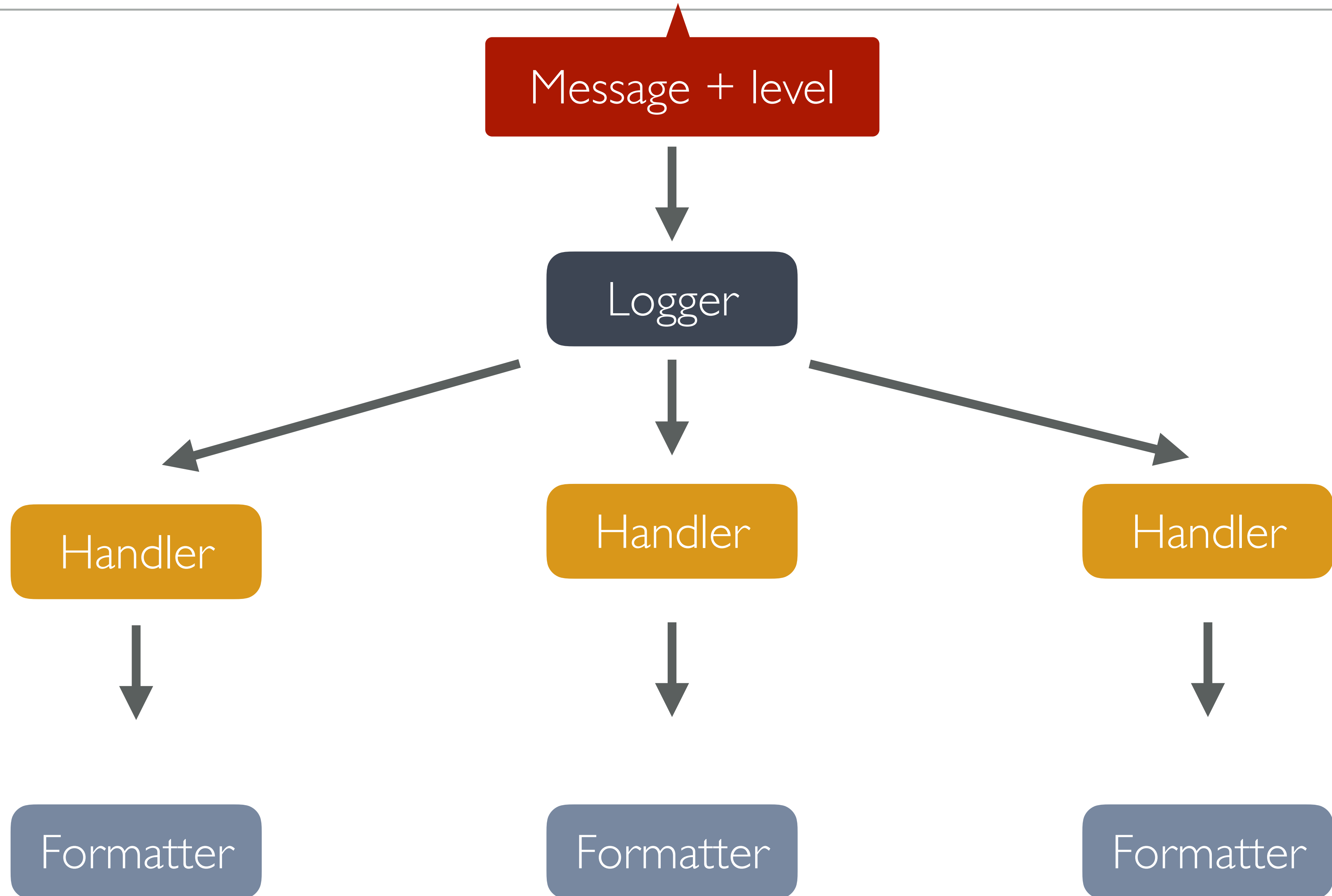# FIELD MIXIN

MODEL MIXIN

WE REDEFINE __setattr__()

TO WRAP THE VALUE OF FIELDS THAT CONTAIN PERSONAL DATA
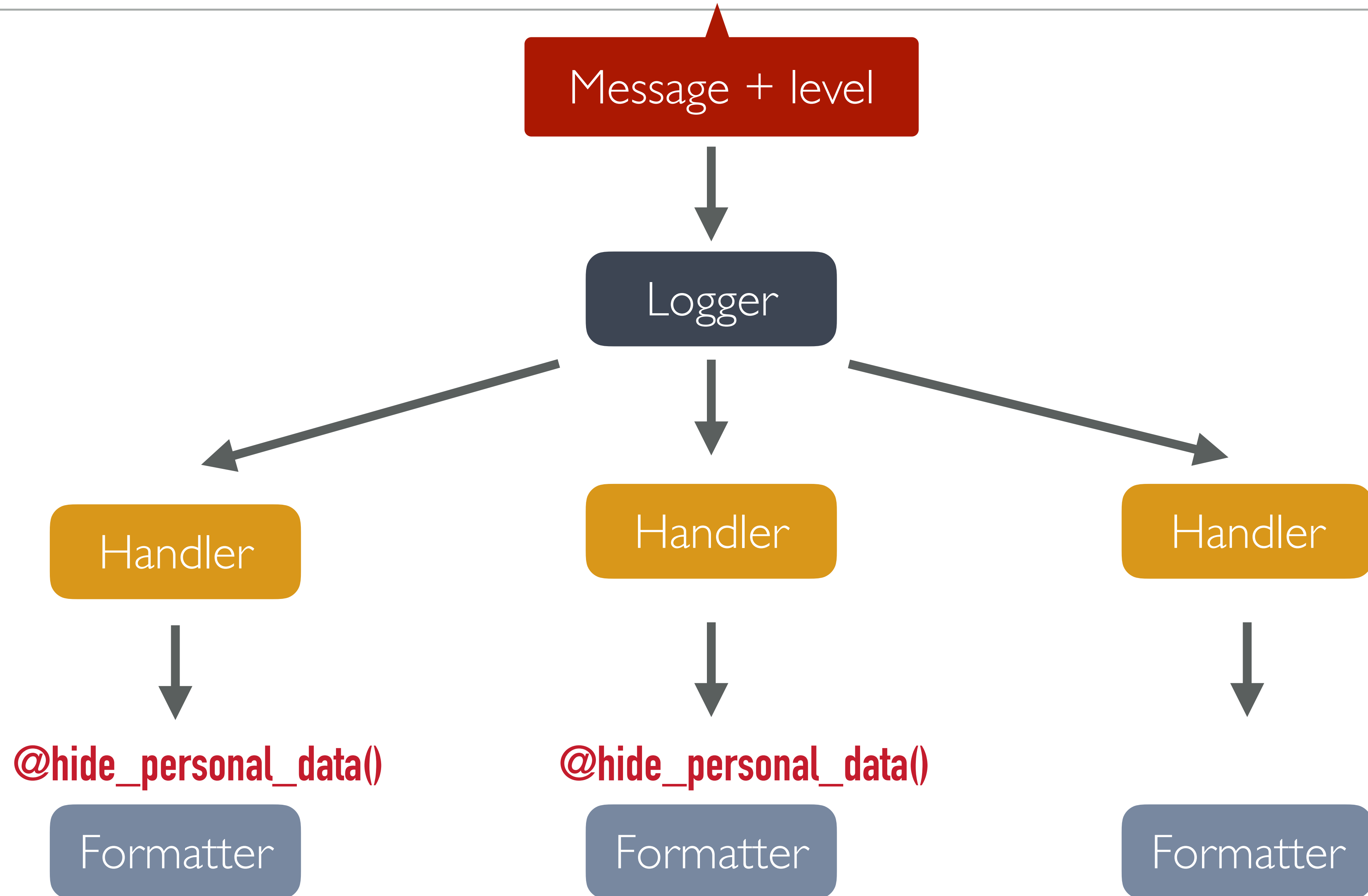
TWO CONTEXTDECORATORS
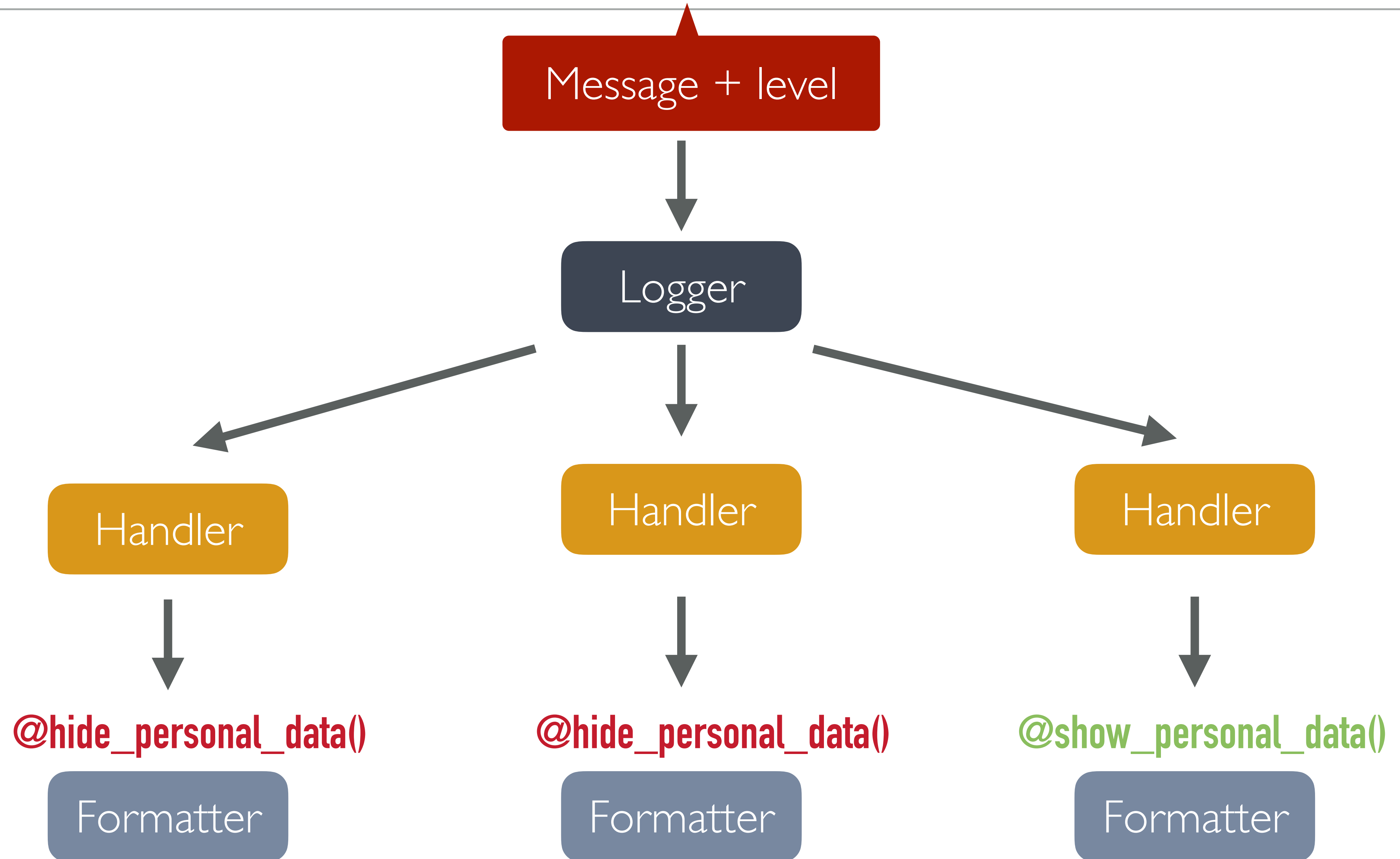
HIDE_PERSONAL_DATA()

SHOW_PERSONAL_DATA()

LOGS

LOGS

LOGS

LOGS

INFO 2019-04-11T12:14:58.042793+02:00 ExampleLogger
Updated customer details for customer.reference=000256 : Their email is REDACTED@redacted.gdpr, their phone number is +1.55500000, they were born 2000-01-01, their additional details are {'REDACTED key': 'REDACTED value'}

NEXT STEPS

OPEN SOURCING !

DO I STILL HAVE TIME ?

BONUS

A CUSTOM TEMPLATE TAG

IN THE TEMPLATE NODE,
CHECK THE PERMISSION TO SHOW OR HIDE THE RETURNED VALUE

WE CAN USE THIS CUSTOM TEMPLATE TAG WITH FILTERS

A CUSTOM TEMPLATE TAG : display_personal_data

```
<div>

    Hello {% display_personal_data customer.name|upper
    permissions.can_view %}, how are you ?

</div>
```

GDPR ?

PROTECTING PERSONAL DATA WITH DJANGO (BECAUSE IT'S THE LAW)

by Will Hardy, DjangoCon EU 2018