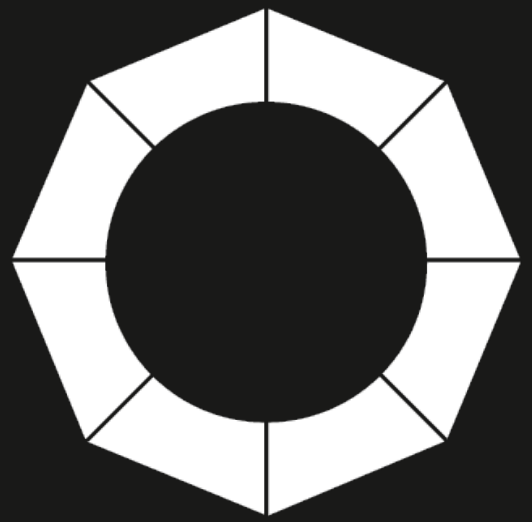

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Anonymization without compromise

WHY

« When analyzing data,

there is no longer a justification for

risking re-identification»

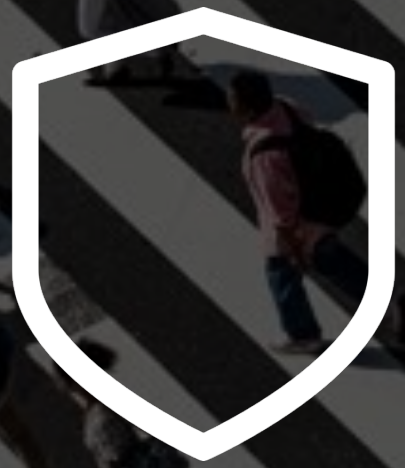
WHY

AVATARS

Initial use

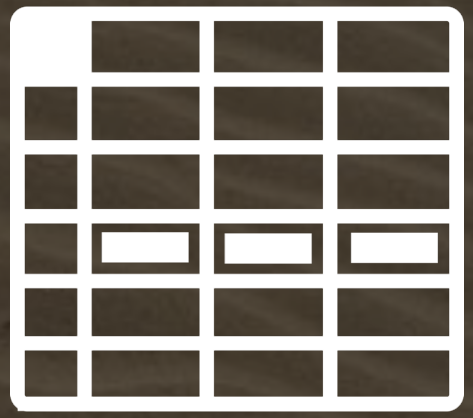
Later uses

WHY



PROTECTION

PROOF



GRANULARITY

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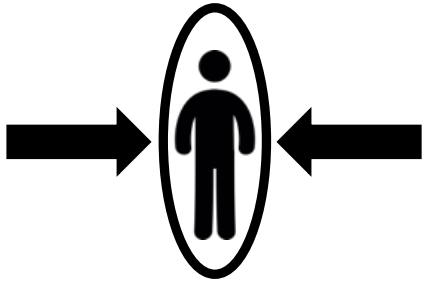
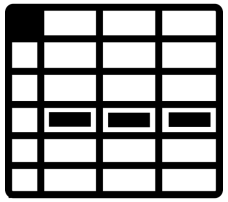
WHY



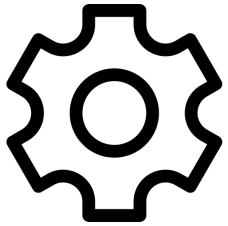
Patient centric

Breakthrough innovation



Granularity interoperability

Individual granularity
Second use to the data



Customizable

Explicabilty

Adapts to different uses

CNIL

Anonymized data

Respect for individuals

PROTECTION

	Singling out	Linkability	Inference
Avatar	**No**	**No**	**No**

- **The Avatar solution has been evaluated by the CNIL**
- **No obstacle have been raised to the compliance demonstration**

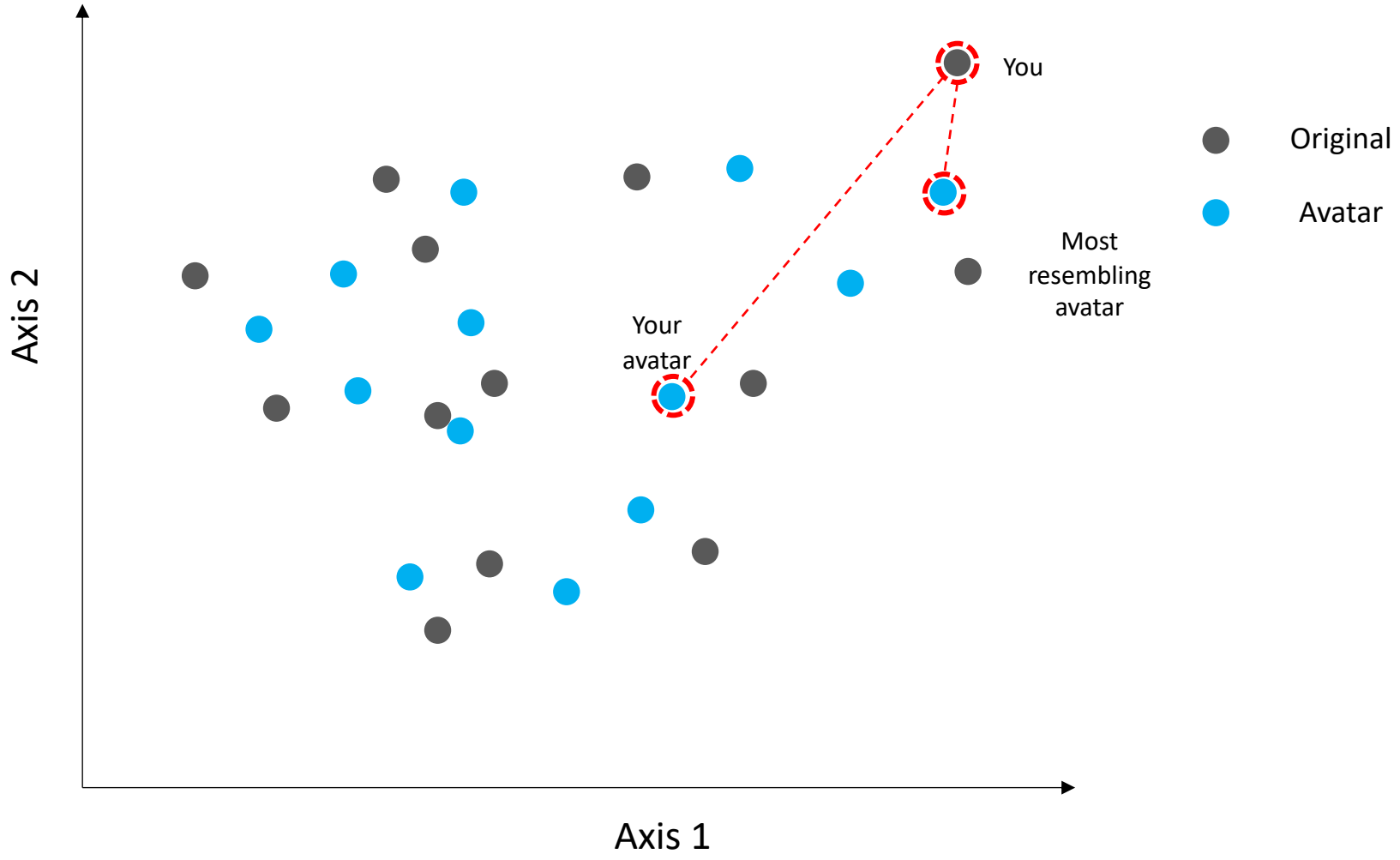
PROTECTION

	Is Singling out still a risk?	Is Linkability still a risk?	Is Inference still a risk?
Pseudonymisation	Yes	Yes	Yes
Noise addition	Yes	May not	May not
Substitution	Yes	Yes	May not
Aggregation or K-anonymity	No	Yes	Yes
L-diversity	No	Yes	May not
Differential privacy	May not	May not	May not
Hashing/Tokenization	Yes	Yes	May not

Table 6. Strengths and Weaknesses of the Techniques Considered

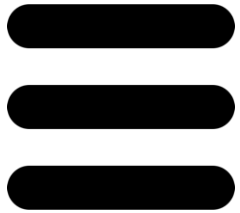
Source « G29 » : https://cnpd.public.lu/content/dam/cnpd/fr/publications/groupe-art29/wp216_en.pdf

PROTECTION


You
Original
Avatar
Most
resembling
avatar
Your
avatar
Axis 2
Axis 1

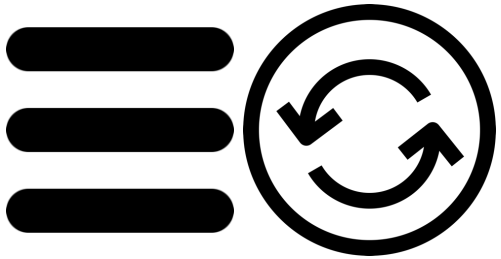
HOW

SAAS OFFER



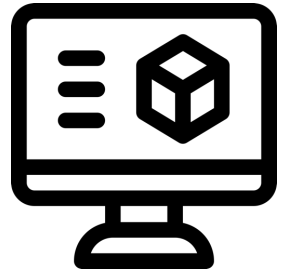
« Avatar line »

Spot



« Avatar line»

Subscription



« Licence »

Subscription

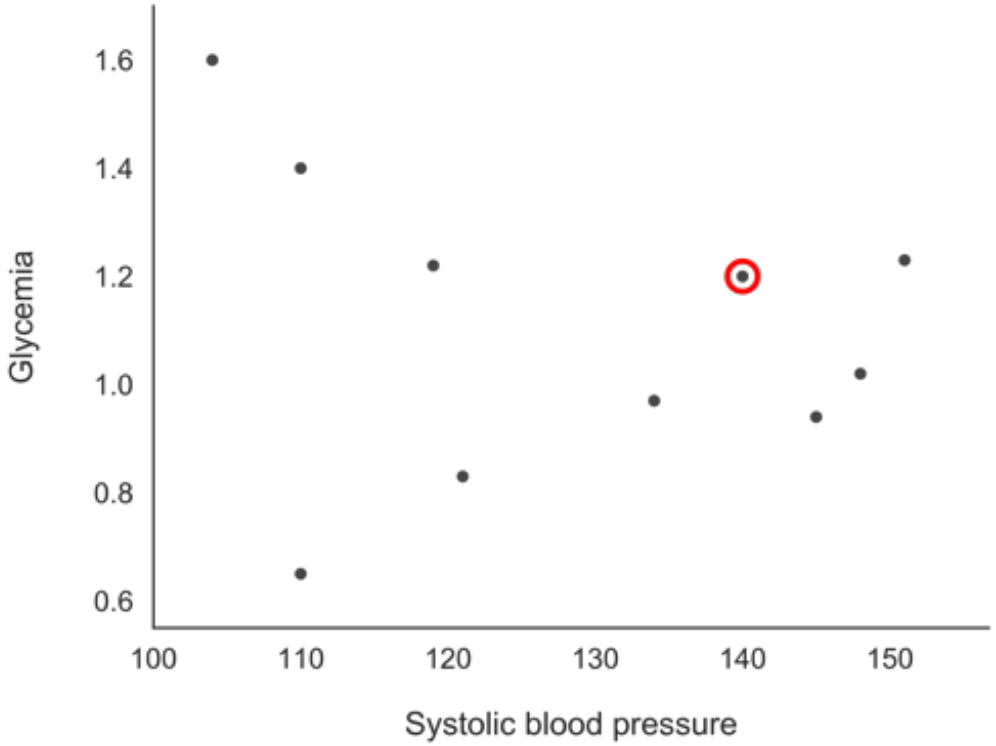
HOW

For each patient:

Project data in euclidean space

Identify K ressembling other patients and draw random weights

Compute new data of the synthetic record: the avatar



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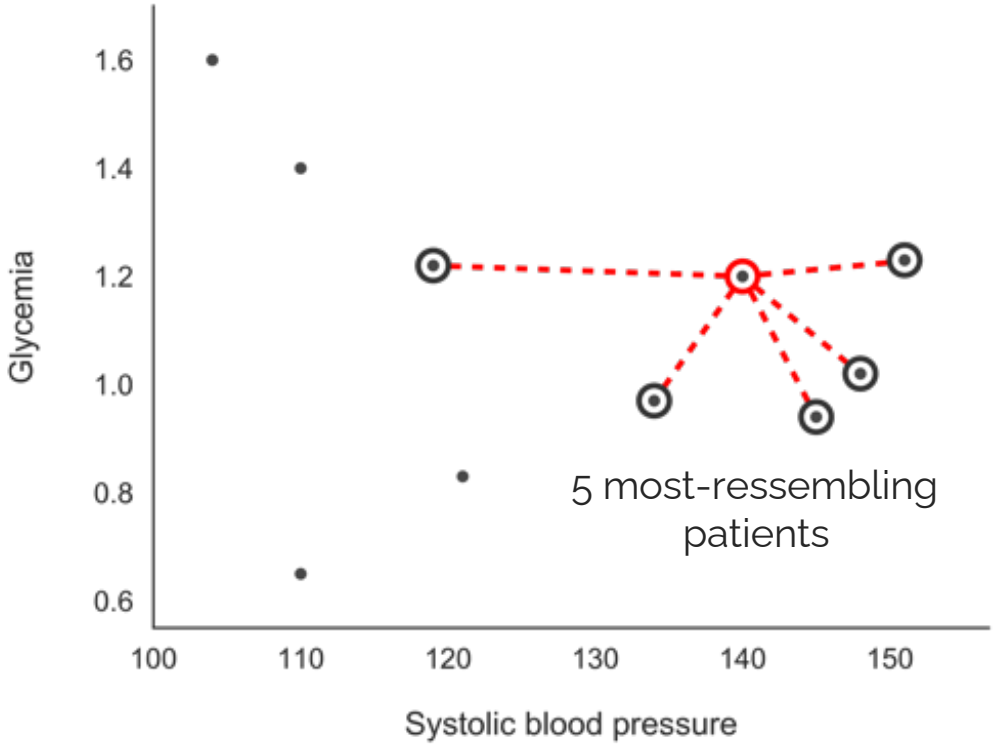

HOW

For each patient:

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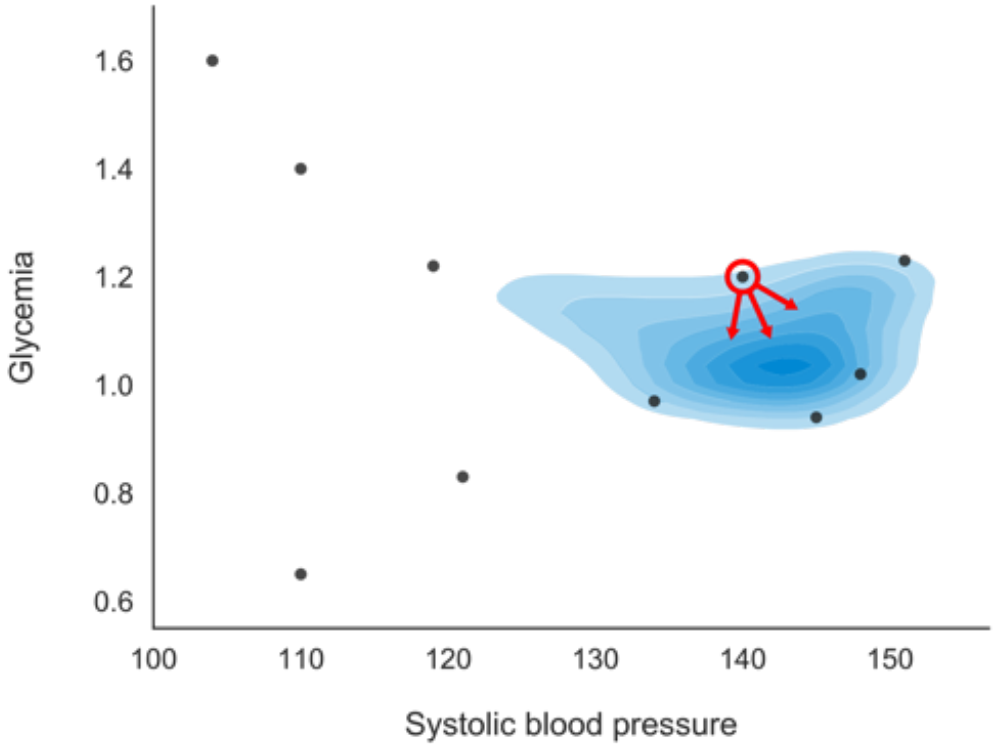
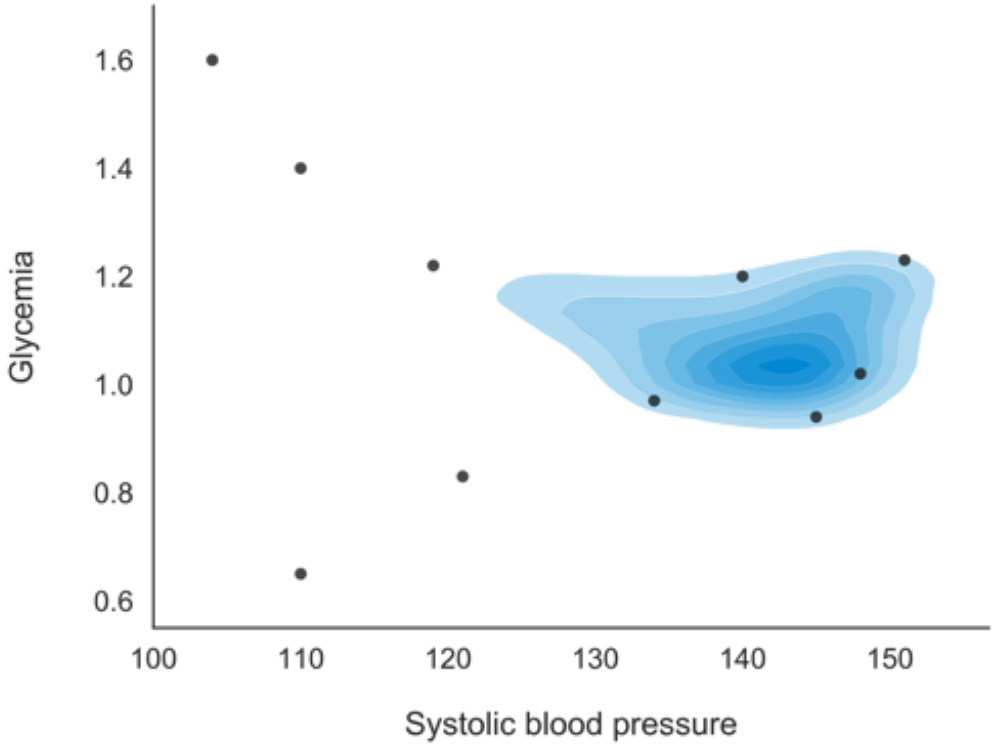
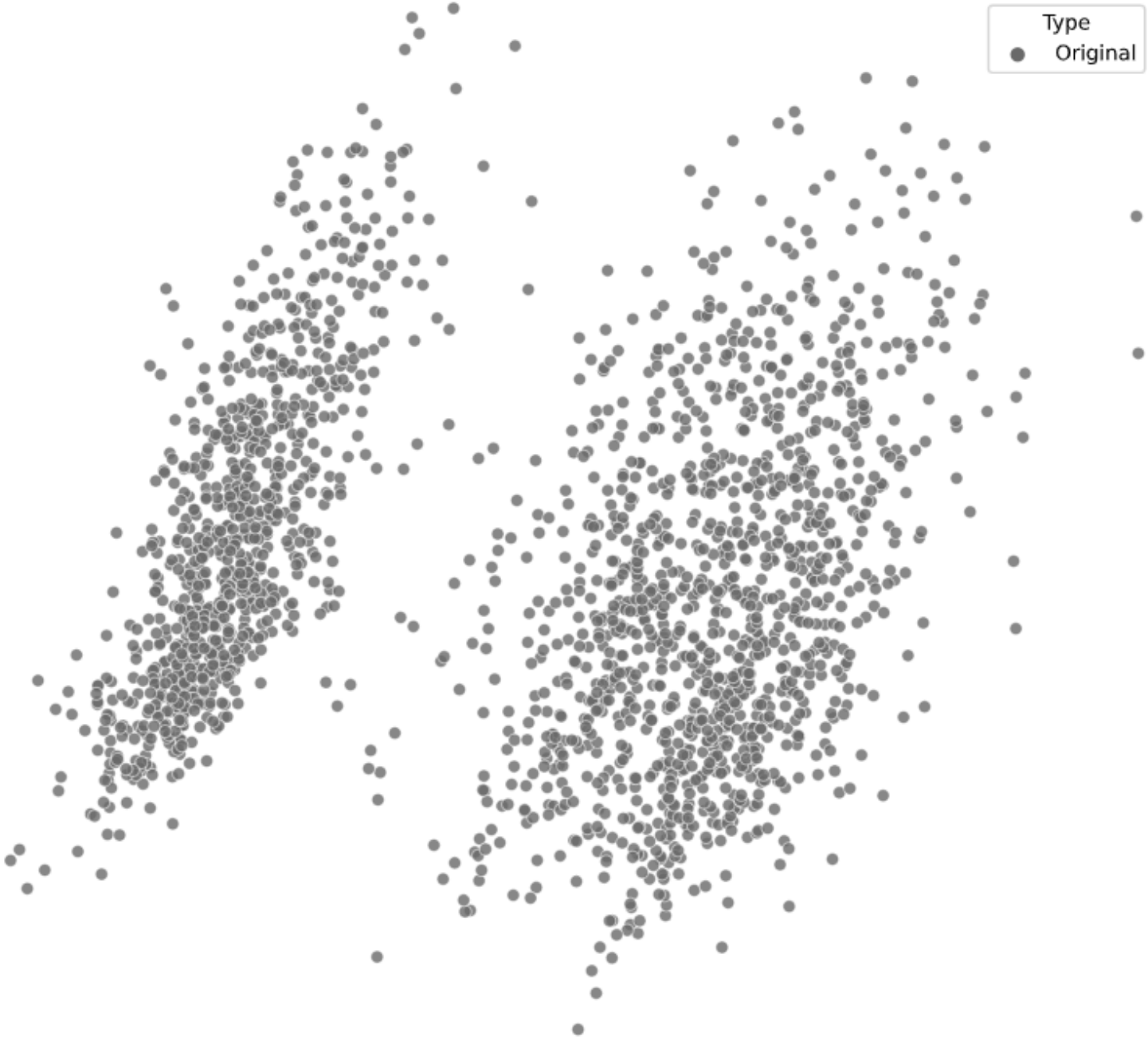


HOW

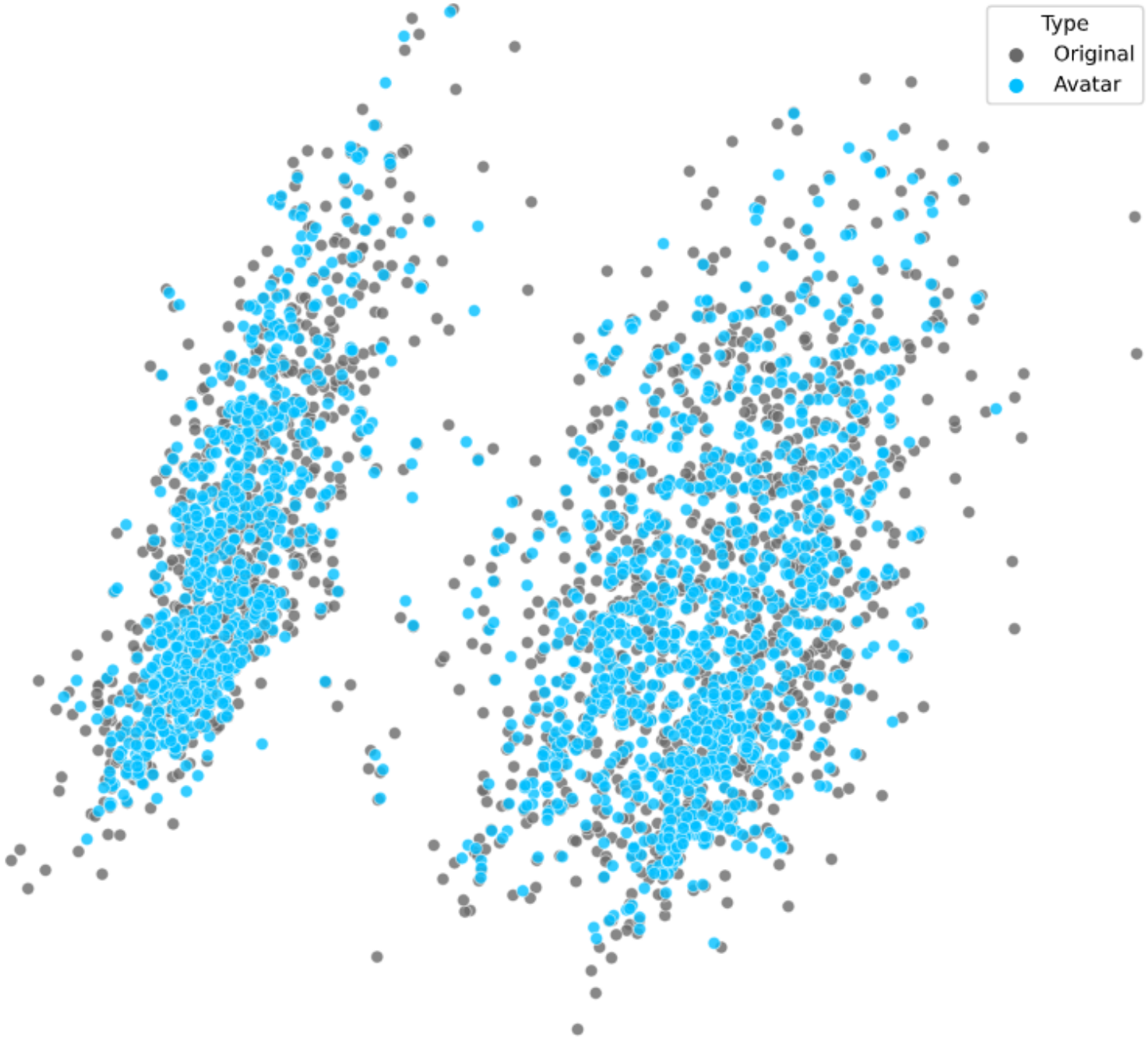


Even though we generate a single avatar from each record, the **highly-random** nature of the method can be appreciated through the kernel density of **probabilities**.

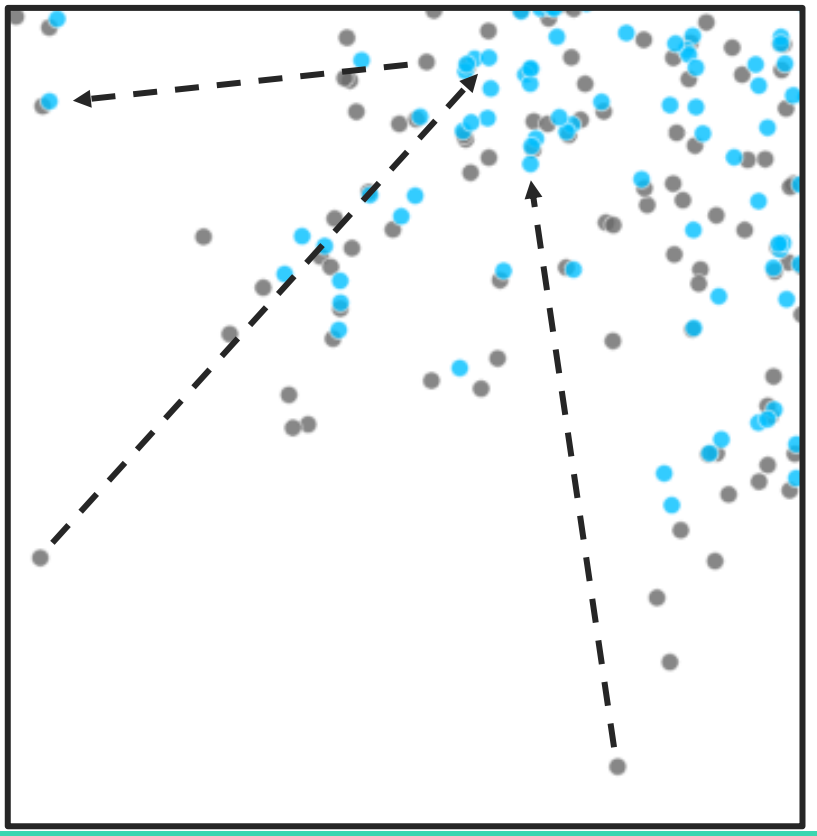
HOW

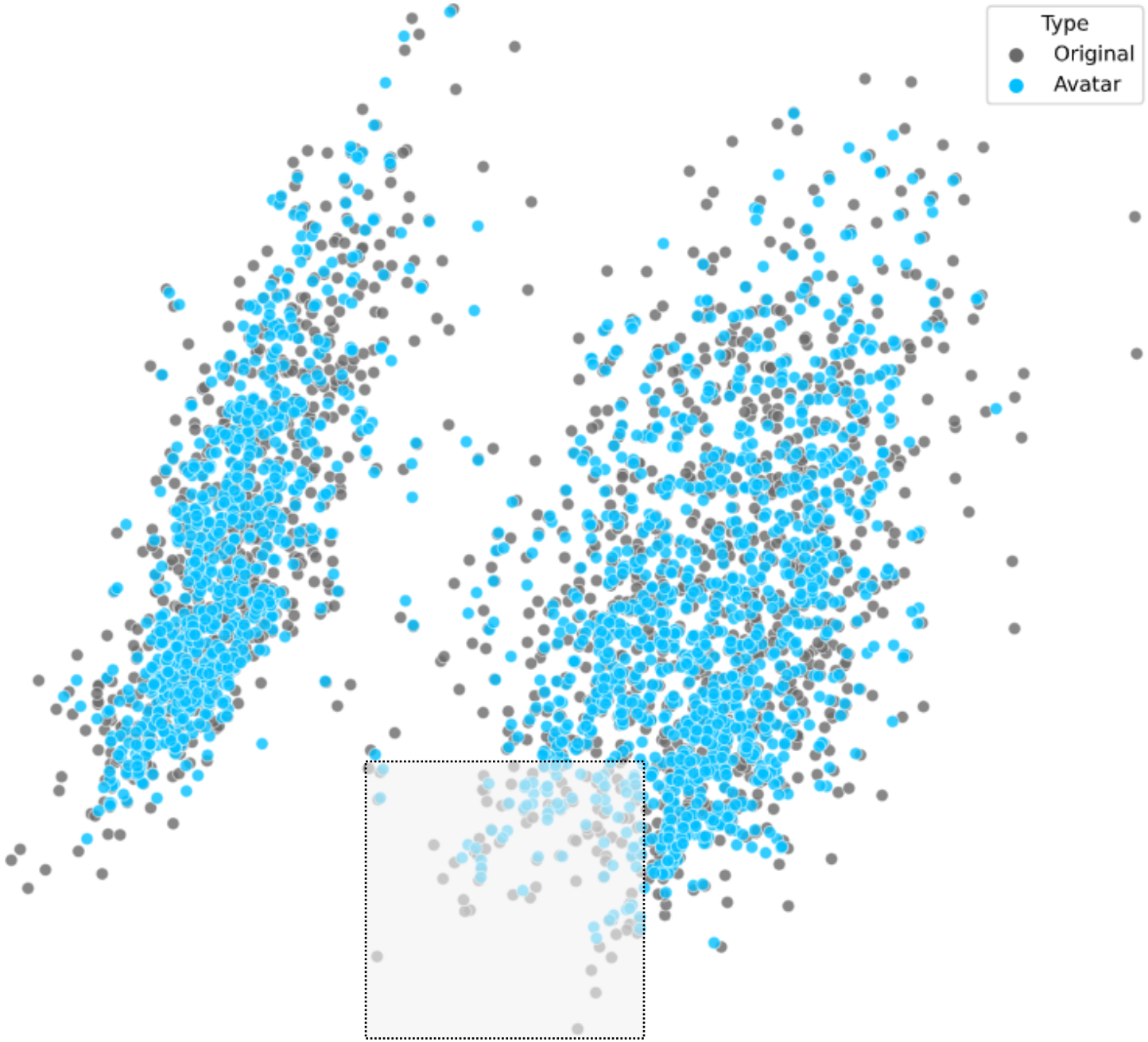


HOW



HOW





HOW

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THANK YOU

Olivier BREILLACQ
07 69 14 11 35

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