

# Why Anonymize?

Anonymized data are outside the scope of GDPR

Anonymization provides a statistical guaranty about the risk of information leakage

It is the most suitable way to give information to third parties, without revealing personal data

## Why Amnesia



User friendly



Works locally, no data transfer risk



Allows user to customize the solution



The only tool to offer anonymization for set-valued data



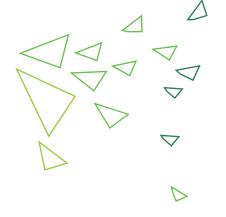
The only tool to support  $k^m$ -anonymity



Easy to incorporate to third party information systems







- 32k visitors
- 105k page views
- 2k unique downloads



### Status



K-anonymity
Km-anonymity
Object relational datasets



#### **API**

ReST and command line API exist to help programmers



#### **Bugs have diminished**

Queries in helpdesk are less about bugs these days

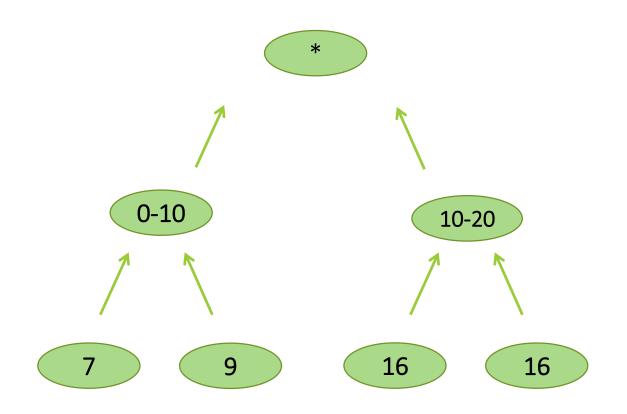
## *k*-anonymity

• Each entry becomes indistinguishable from other *k*-1 entries

id	Zipcode	Age	National.	Disease
1	13053	28	Russian	Heart Disease
2	13068	29	American	Heart Disease
3	13068	21	Japanese	Viral Infection
4	13053	23	American	Viral Infection
5	14853	50	Indian	Cancer
6	14853	55	Russian	Heart Disease
7	14850	47	American	Viral Infection
8	14850	49	American	Viral Infection
9	13053	31	American	Cancer
10	13053	37	Indian	Cancer
11	13068	36	Japanese	Cancer
errovit 12	is - #openaire 13068	week202 35	20 American	Cancer

id	Zipcode	Age	National.	Disease
<del>-</del>	130**	<30	*	Heart Disease
<del>-</del> -	130**	<30	*	Heart Disease
	130**	<30	*	Viral Infection
4	130**	<30	*	Viral Infection
<u> </u>	1485*	≥40	*	Cancer
<del>6</del>	1485*	≥40	*	Heart Disease
7	1485*	≥40	*	Viral Infection
8	1485*	≥40	*	Viral Infection
9	130**	3*	*	Cancer
<del>10</del>	130**	3*	*	Cancer
<del>11</del>	130**	3*	*	Cancer
<del>12</del>	130**	3*	*	Cancer

## Generalization Hierarchy



#### **Amnesia Limitations**

- Users are not familiar with anonymization techniques
- The process is difficult to understand and requires effort from the user's part
- Amnesia cannot decide on privacy parameters
- K-anonymity does not protect from every type of attack



