

Principles of **Data Usability**

1. Share your data.

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1. Share your data.
2. Provide metadata.

Principles of **Data Usability**

1. Share your data.
2. Provide metadata.
3. Provide an unprocessed form of the data.

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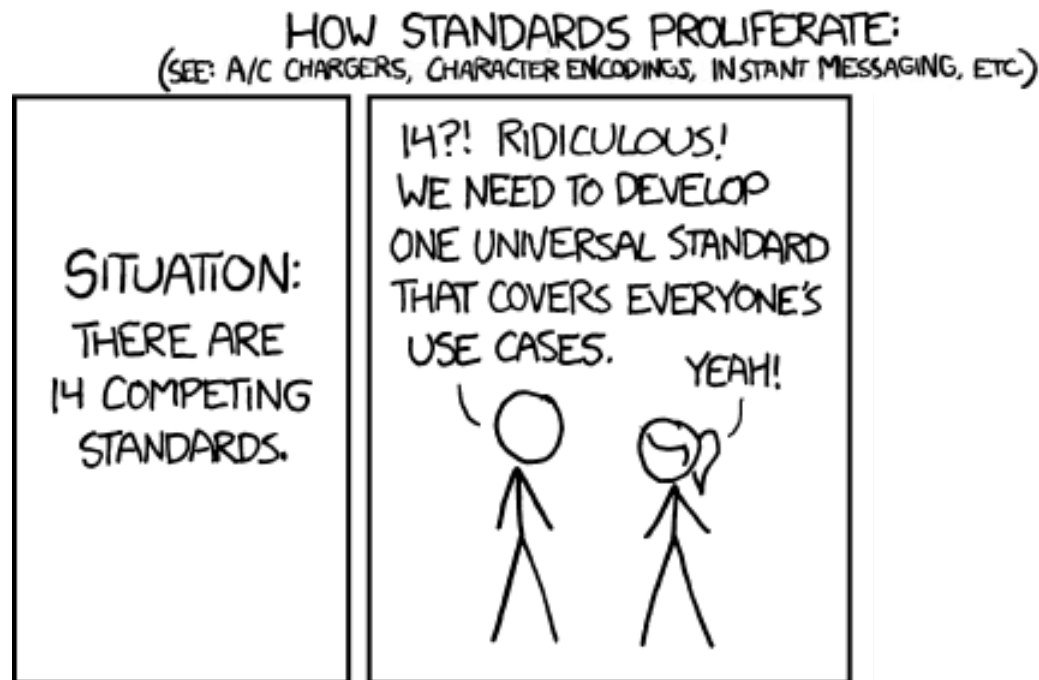
1. Share your data.
2. Provide metadata.
3. Provide an unprocessed form of the data.
4. Use standard data formats.



Randall Munroe, *xkcd*.

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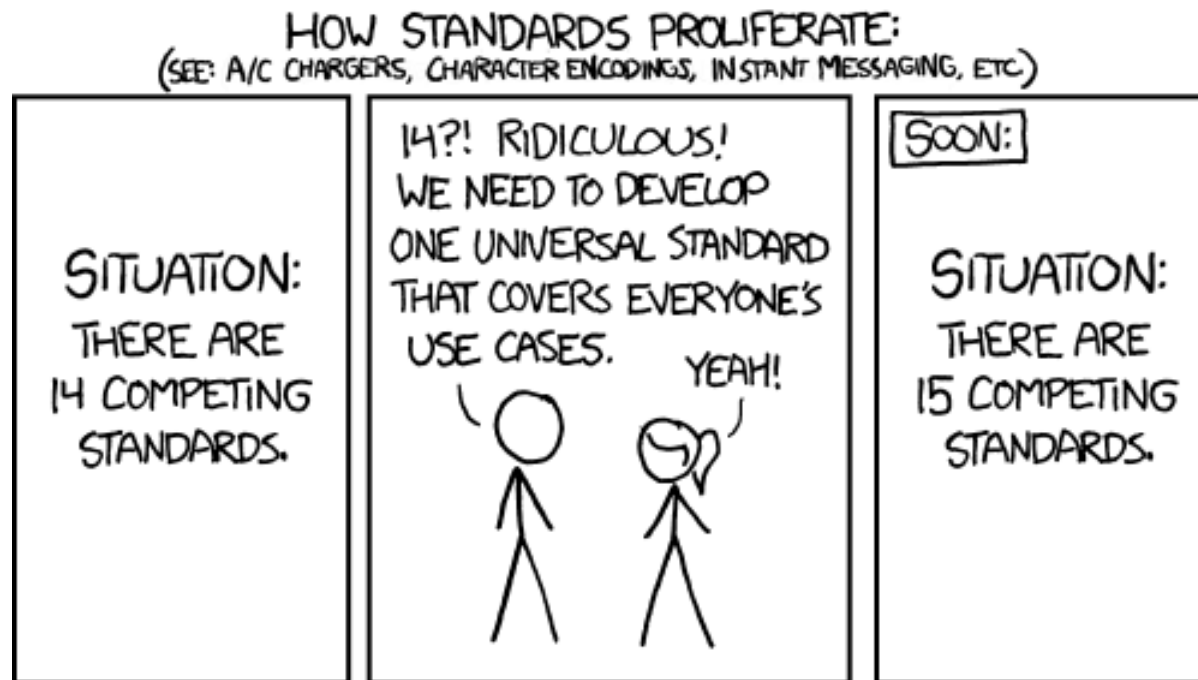
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Randall Munroe, *xkcd*.

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Format Name	Description
RAW	Sequence format that doesn't contain any header.
FASTA	Default sequence format. Contains header line and sequence: >name AGCTGTGTGGGTTGGTGGGTT
PIR	Sequence format that's similar to FASTA but less common
MSF	Multiple sequence alignment format
CLUSTAL	Multiple sequence alignment format (works with T-Coffee)
TXT	Text format
GIF, JPEG, PNG	Graphic formats
PDF, DOC	Binary format

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1. Share your data.
2. Provide metadata.
3. Provide an unprocessed form of the data.
4. Use standard data formats.
5. Use good null values.

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1. Share your data.
2. Provide metadata.
3. Provide an unprocessed form of the data.
4. Use standard data formats.
5. Use good null values.
6. Make it easy to combine your data with other datasets.

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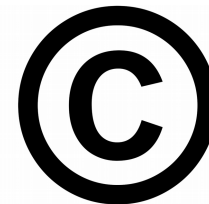
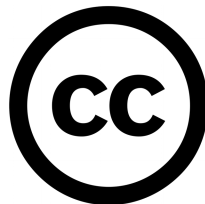
1. Share your data.
2. Provide metadata.
3. Provide an unprocessed form of the data.
4. Use standard data formats.
5. Use good null values.
6. Make it easy to combine your data with other datasets.
7. Perform basic quality control.

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1. Share your data.
2. Provide metadata.
3. Provide an unprocessed form of the data.
4. Use standard data formats.
5. Use good null values.
6. Make it easy to combine your data with other datasets.
7. Perform basic quality control.
8. Use an established repository.

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1. Share your data.
2. Provide metadata.
3. Provide an unprocessed form of the data.
4. Use standard data formats.
5. Use good null values.
6. Make it easy to combine your data with other datasets.
7. Perform basic quality control.
8. Use an established repository.
9. Use an established and open license.



Bioinformatics **Common Formats**

Format	Description
RAW	Sequence format without header.
FASTA	Sequence format with header line and sequence: >name AGCTGTGTGGGTTGGTGGGTT
PIR	Sequence format similar to FASTA
MSF	Multiple sequence alignment format
CLUSTAL	Multiple sequence alignment format
TXT	Text format
GIF, JPEG, PNG	Graphic formats
PDF, DOC	Binary format