

情報リテラシ第二 (1b/3b)

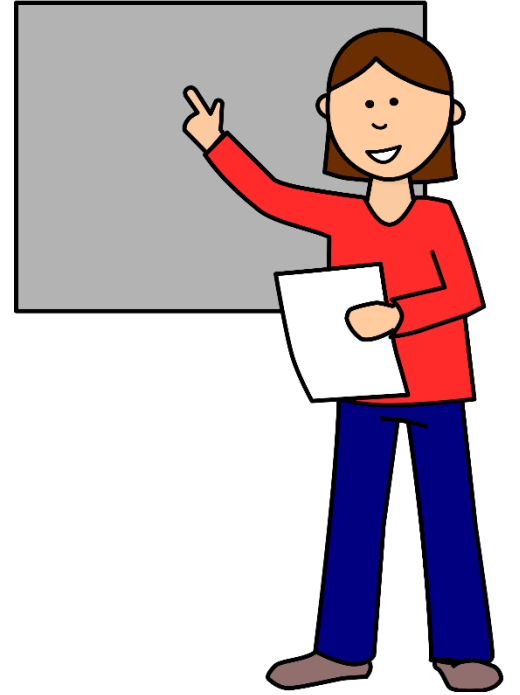
第7週

プレゼンテーション (発表)

文書作成 (文献の参照)

プレゼンテーションに求められるもの

- 丁度よい長さ
 - (発表時間は自分で決められない)
- 自信のある態度
 - 聴衆を見て話す
- 自分の言葉で



プレゼンテーション

1. グループ中1名の端末を使用する
 2. 最終スライドをダウンロード
 3. 指定された発表順に
 - 3分間で発表する
終わったら次の発表者のスライドを開いておくこと
 - 発表の評価をする
感想には「ちゃんと聴いていたこと」の証拠となるように
- ※ 発表者がいない場合は順番を繰り上げる
- ※ 全員発表を終えてしまった場合は静粛に待つ



課題: 文書作成

- 手順

1. 文書作成フォルダのアーカイブ(.zip)ファイルを作る
Finderでグラフ作成を行ったtheme2-writingフォルダを右クリックし「theme2-writingを圧縮」を選ぶ
2. theme2-writing.zipという名前のアーカイブができるので、OCW-iの課題画面から提出する。

- 期限 8月9日(金)

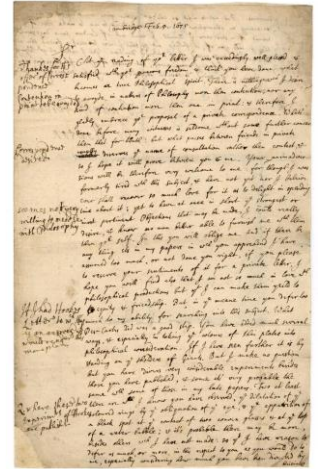
- これが最終提出物 → 成績評価に反映

LaTeXによる文書作成

解説予定

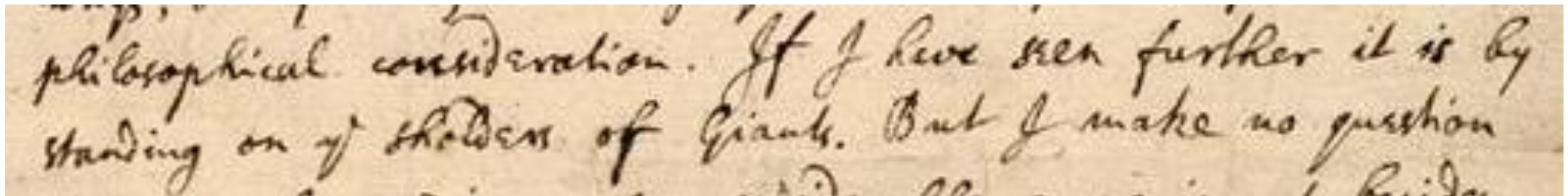
- 段落
- 数式
- 図、表、参照
- 文献と引用

科学技術文書における文献の参照



***“If I have seen further, it is by standing
on the shoulders of giants.”***

(Isaac Newton, 1675)



文献の参照方法の実際

- 本文中で誰々の何々についての研究について触れる
- 論文の末尾で出典を示す



Observation of Gravitational Waves from a Binary Black Hole Merger

B. P. Abbott *et al.**

(LIGO Scientific Collaboration and Virgo Collaboration)

(Received 21 January 2016; published 11 February 2016)

On September 14, 2015 at 09:50:45 UTC the two detectors of the Laser Interferometer Gravitational-Wave Observatory simultaneously observed a transient gravitational-wave signal. The signal sweeps upwards in frequency from 35 to 250 Hz with a peak gravitational-wave strain of 1.0×10^{-21} . It matches the waveform predicted by general relativity for the inspiral and merger of a pair of black holes and the ringdown of the

light, generated by time variations of the mass quadrupole moment of the source [1,2]. Einstein understood that gravitational-wave amplitudes would be small; moreover, until the Chapel Hill meeting in 1957 there was significant debate about the reality of gravitational waves [3].

Also in 1916, Schwarzschild published his solution of the field equations [4] that was later understood as a black hole [5,6], and in 1963 Kerr generated solutions to rotating black holes [7]. Starting in the

- [1] A. Einstein, *Sitzungsber. K. Preuss. Akad. Wiss.* **1**, 688 (1916).
- [2] A. Einstein, *Sitzungsber. K. Preuss. Akad. Wiss.* **1**, 154 (1918).
- [3] P. R. Saulson, *Gen. Relativ. Gravit.* **43**, 3289 (2011).
- [4] K. Schwarzschild, *Sitzungsber. K. Preuss. Akad. Wiss.* **1**, 189 (1916).
- [5] D. Finkelstein, *Phys. Rev.* **110**, 965 (1958).
- [6] M. D. Kruskal, *Phys. Rev.* **119**, 1743 (1960).
- [7] R. P. Kerr, *Phys. Rev. Lett.* **11**, 237 (1963).
- [8] C. V. Vishveshwara, *Nature (London)* **227**, 936 (1970).

Autophagy in Yeast Demonstrated with Proteinase-deficient Mutants and Conditions for its Induction

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Cells of *Saccharomyces cerevisiae* usually contain a few vacuoles. Major proteases, such as proteinase A and B, carboxypeptidase Y, and amino peptidase I, are localized in these vacuoles (Wiemken et al., 1979). These enzymes and their biogenesis have been studied extensively (Achstetter and Wolf, 1985; Klionsky et al., 1989). Recently, specific roles of these proteinases have been demonstrated. Recently, Chiang and Schekman (1990) showed that vacuolar proteinases may be involved

York, 89 pp.

- Teichert, U., B. Mechler, H. Müller, and D. H. Wolf. 1989. Lysosomal (vacuolar) proteinases of yeast are essential catalysts for protein degradation, differentiation, and cell survival. *J. Biol. Chem.* 264:16037-16045.
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- Wilson, D. W., C. A. Wilcox, G. C. Flynn, E. Chen, W.-J. Kuang, W. J. Henzel, M. R. Block, A. Ullrich, and J. E. Rothman. 1989. A fusion protein required for vesicle-mediated transport in both mammalian cells and yeast. *Nature (Lond.)*. 339:355-359.
- Wolf, D. H., and C. Ehmman. 1979. Studies on a proteinase B mutant of yeast.

Crystal structures of the gastric proton pump

Kazuhiro Abe^{1,2,3*}, Katsumasa Irie^{1,2}, Hanayo Nakanishi^{1,3}, Hiroshi Suzuki⁴ & Yoshinori Fujiyoshi^{1,3,5}

intake. This highly acidic environment is generated by the gastric H⁺, K⁺-ATPase¹ and is indispensable for digestion, and is also an important barrier to pathogens invading via the oral route. However, excessive stomach acidification leads to ulcers, which—although not life-threatening—considerably impair the health of affected individuals². Acid suppression in combination with antibiotics is the rec-

ognized
gastric c
recently

1. Ganser, A. L. & Forte, J. G. K⁺-stimulated ATPase in purified microsomes of bullfrog oxyntic cells. *Biochim. Biophys. Acta* **307**, 169–180 (1973).
2. Sachs, G. et al. The gastric H,K ATPase as a drug target: past, present, and future. *J. Clin. Gastroenterol.* **41**, S226–S242 (2007).
3. Sachs, G., Meyer-Rosberg, K., Scott, D. R. & Melchers, K. Acid, protons and *Helicobacter pylori*. *Yale J. Biol. Med.* **69**, 301–316 (1996).
4. Otake, K. et al. Characteristics of the novel potassium-competitive acid blocker

文献の参照

...今までに数々の研究がなされている。

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\cite{kleinberg-1999-authoritative-sources-in-a-hyperlinked-environment,...}...
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参考文献の書き方

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\bibliography {references}
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文献データベースの
ファイル名

テキスト
エディタ

編集

LaTeX
ファイル

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  Journal = {J. ACM},
  Month = sep,
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  Pages = {604--632},
  Publisher = {ACM},
  Title = {Authoritative Sources in a Hyperlinked Environment},
  Volume = {46},
  Year = {1999}}
(references.bib)
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文献の著者、
雑誌名、題名等

画像
ファイル

pLaTeX

文書
ファイル

閲覧

PDF閲覧
ソフト

今までに数々の研究がなされている。 [5, 10, 3, 6, 7, 11, 13, 1, 2, 9]
usot Newman Moore によって提案された手法 (CNM 法) [2] を

参考文献

- [1] Dong Cai, Xiaofei He, Ji-Rong Wen, and Wei Ying Ma. Block
- [5] Jon M. Kleinberg. Authoritative sources in a hyperlinked
No. 5, pp. 604–632, September 1999.
- [6] Ravi Kumar, Prabhakar Raghavan, Sridhar Rajagopalan

文献データベースの管理

- BibTeXファイルはテキストエディタで編集できる
- 便利な編集ソフトウェアもある
 - BibDesk (教育用環境に導入済み)
 - Mendeley
 - EndNote
- 便利な機能
 - 「コピー」すると\citeコマンドになる
 - LaTeX/BibTeX以外で論文を書く場合にも使用可能なものも
 - PDFファイルの整理や文献検索エンジンとの連携