

JATS XML to PubReader

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학술지에서의 N-Screen

학술지에서의 N-Screen 적용

N 스크린 서비스 제공 모델 중 OSMU(One Source Multi Device)

- 하나의 콘텐츠를 여러 기기에서 사용



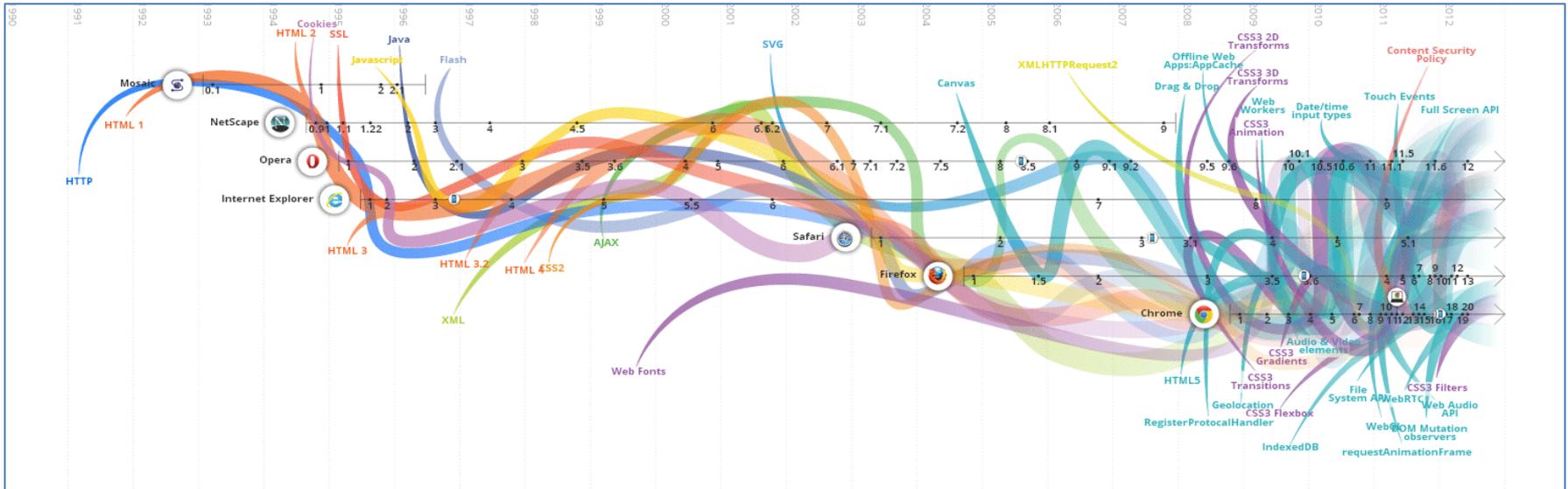
학술지에서의 OSMU 구현을 위해서는 웹서비스 및 웹표준에 대한 인지 및 Global Standards.

웹 표준(Web Standards)?

웹 표준(Web Standards)이란?

다양한 접속환경을 가진 인터넷 사용자들이 정보에 소외되지 않고, 모두가 동등하게 정보를 이용 할 수 있도록 하기 위해 글로벌 표준(Global Standard)에 따라 웹을 개발하는 것

THE EVOLUTION OF THE WEB



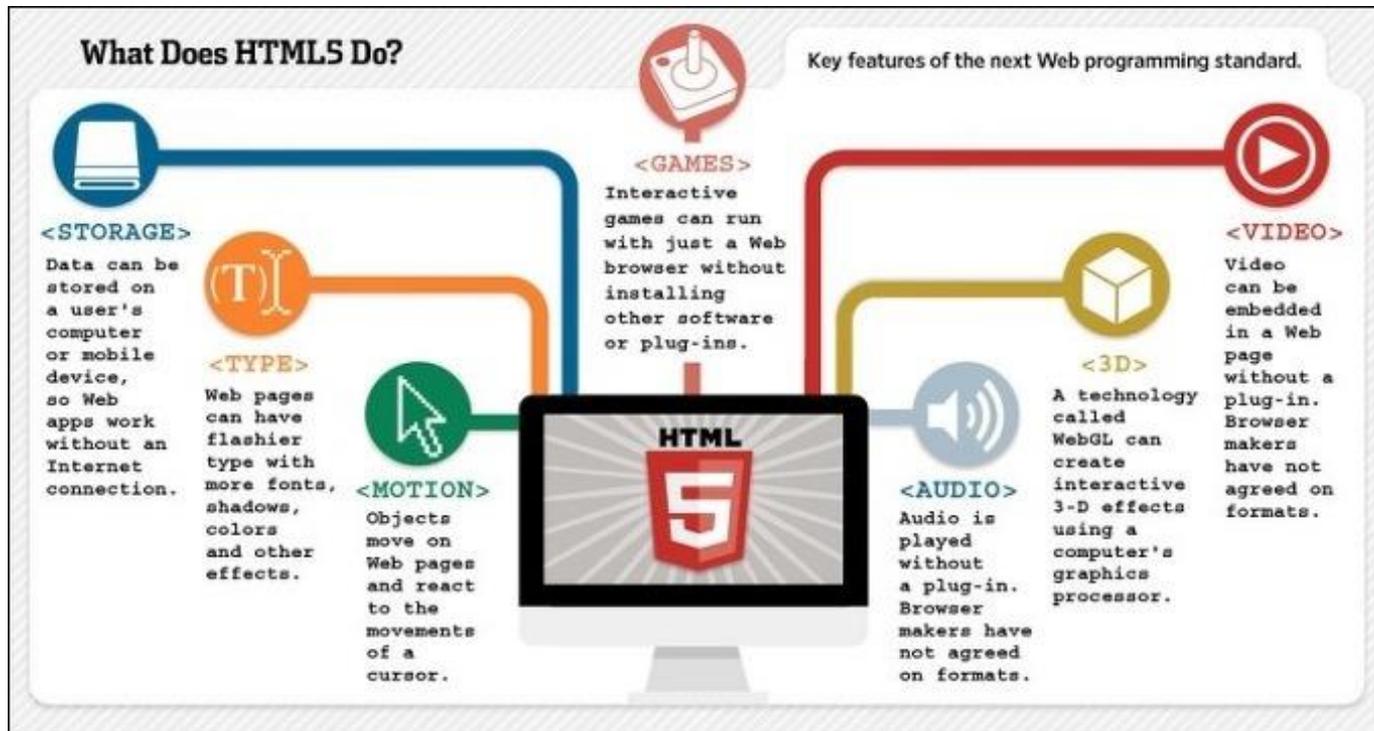
<http://www.evolutionoftheweb.com/?hl=en>

HTML5란?

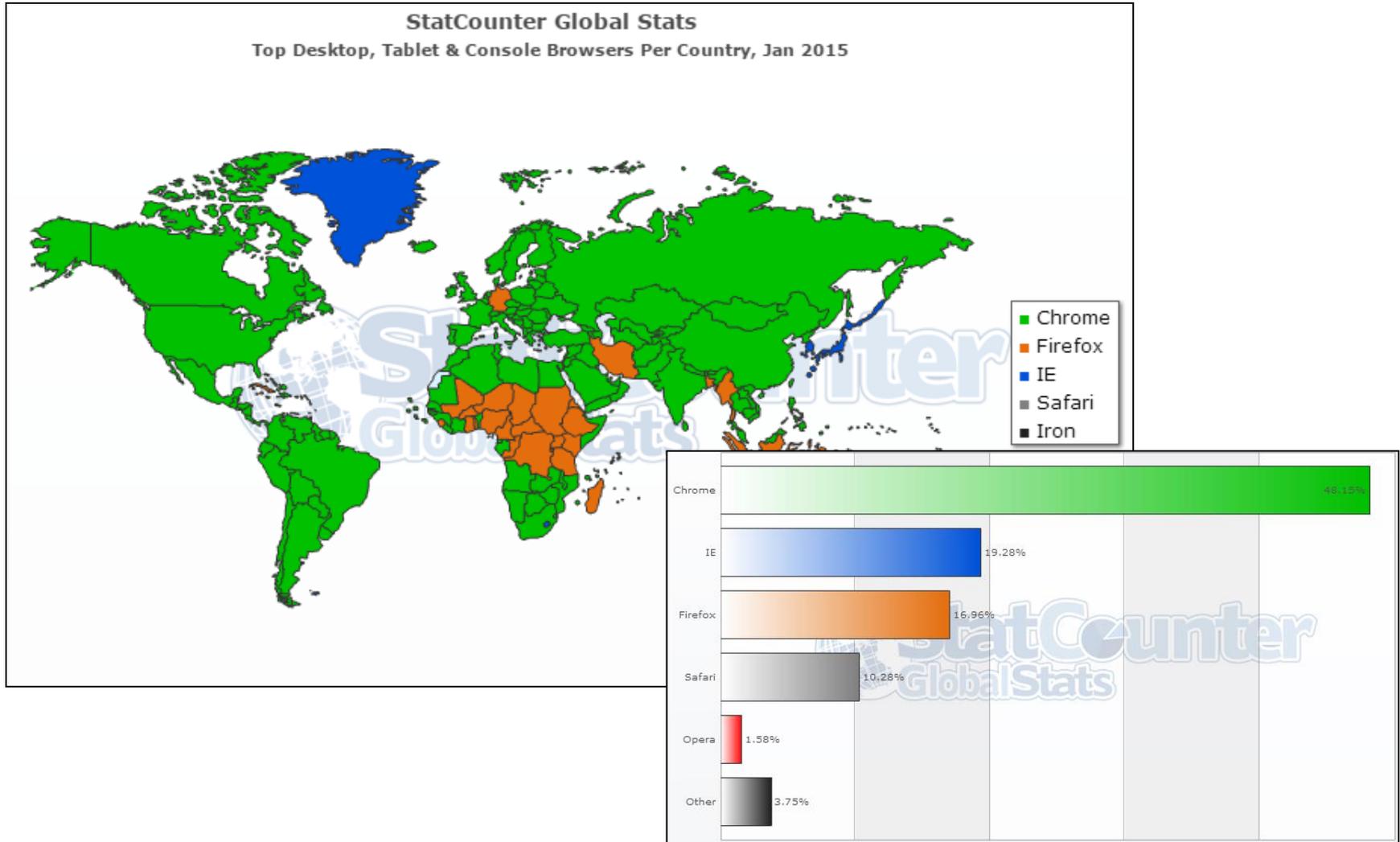
유·무선 어디에서나 제약 없이 사용 가능한 인터넷 이용환경을 구축하기 위해 HTML5 등의 표준화를 W3C (World Wide Web Consortium) 확정.(2014년10월)

HTML5란?

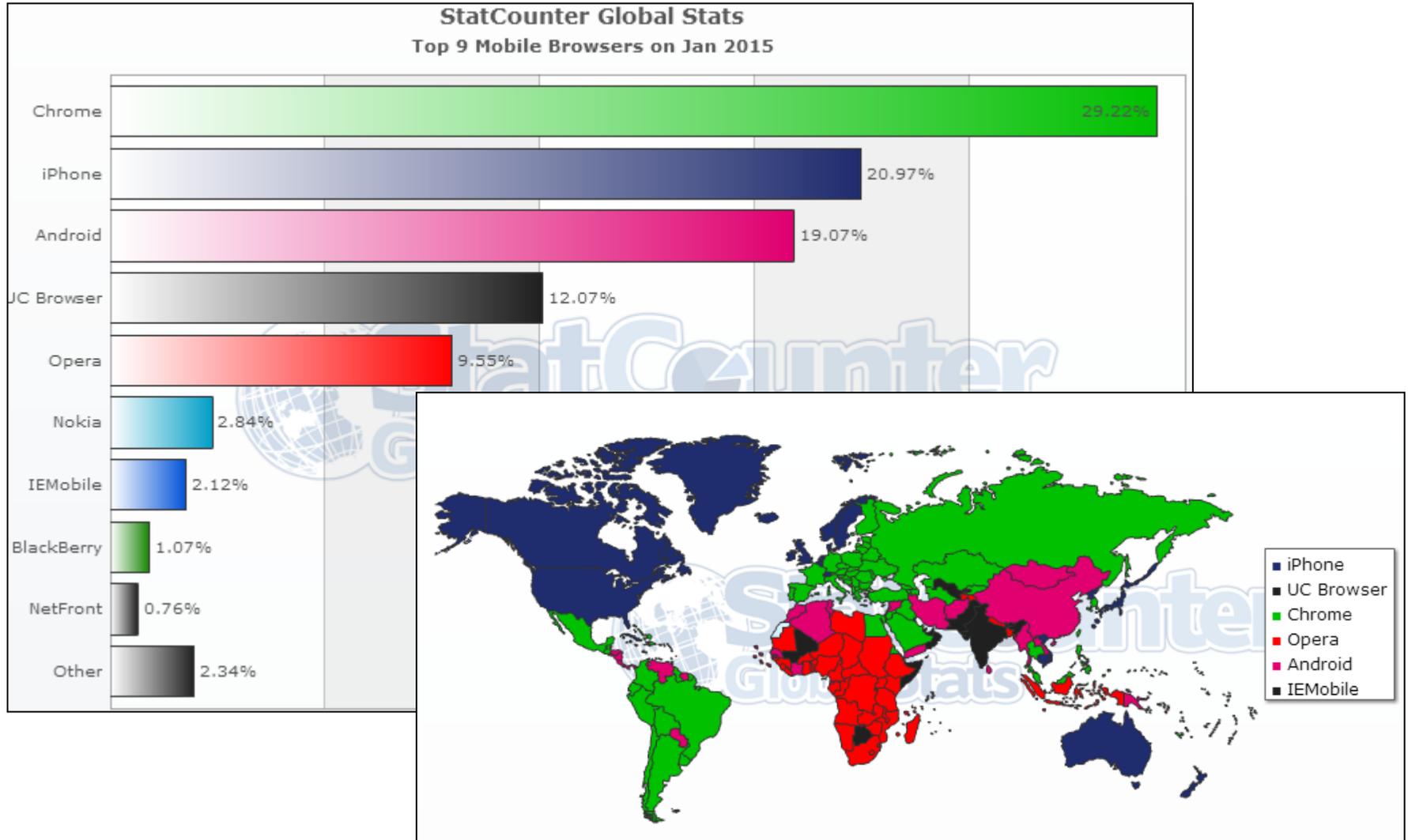
- 기존의 Text, Hyperlink ➡ 멀티미디어 etc, 다양한 어플리케이션 지원



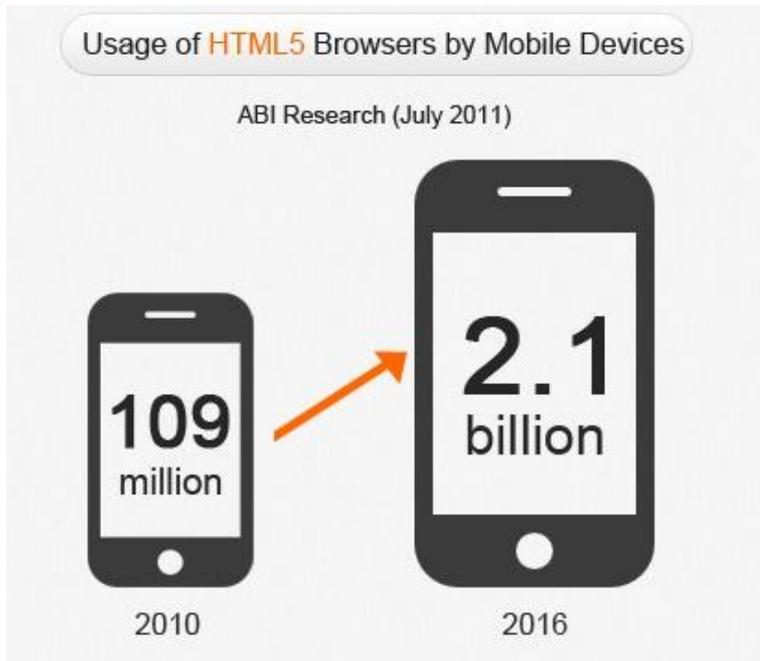
브라우저 사용현황 - 2015년 1월



Mobile 브라우저 사용현황 - 2015년 1월



Web + Mobile



Mobile Devices 이용현황 및 예측

HTML5 : Past, Present & Future

Web and Mobile Applications

Timeline of Web Technologies

A horizontal timeline showing the evolution of web technologies. Nodes include: 1991 (HTML), 1994 (HTML 2), 1996 (CSS 1 + JavaScript), 1997 (HTML 4), 1998 (CSS 2), 2000 (XHTML 1), 2002 (Tableless Web Design), 2005 (AJAX), and 2009 (HTML5 with the HTML5 logo). A red 'new' starburst is placed above the HTML5 node.

Key Features of **HTML5**

A row of eight icons representing key features of HTML5: Semantics (three stacked chevrons), Offline & Storage (a circular arrow), Device Access (a camera icon), Connectivity (a network icon), Multimedia (a film strip icon), 3D & Graphics (a cube icon), Performance (a gear icon), and CSS3 (a stylized '3' icon).

Uses of **HTML5**

A diagram showing two icons: a desktop monitor labeled 'Web' and a smartphone labeled 'Mobile'. A line connects them with the text 'Uses of HTML5' in the middle.

Web + Mobile = HTML5

HTML5 적용해야 하는가?

Touch Computing 시대

- 마우스 중심의 인터페이스 시대 종료  터치 컴퓨팅이 대세
- 슬라이딩/멀티터치/제스처/음성인식등 오감형 UX(User Experience)시대
: 서비스 중심의 시대

서비스 환경의 변화

- 다양한 디지털 디바이스의 보급 (스마트폰과 테블릿의 대중화)
- OS 간의 치열한 경쟁
- 해상도의 진화

HTML5 적용 전략

- OSMU(One Source Multi Device) 전략으로 콘텐츠 생산 비용 절감
- OS / Screen Size & Screen Resolution / Multi Device 를 수용
- 멀티미디어 기반의 콘텐츠 스트리밍 서비스 용이

JATS XML to PubReader – 스마트기기

The image illustrates the JATS XML to PubReader conversion for smart devices. It shows a tablet displaying a scientific article with several interactive UI elements overlaid:

- Typography configurati...:** A menu with 'A-', 'A+', and 'AUTO' options for adjusting text size.
- Article navigation:** A menu with 'Article Information', 'Abstract', 'INTRODUCTION', 'METHODS', 'RESULTS', and 'DISCUSSION' options.
- Figure 1:** A bar chart showing p120 copy number (per 1×10^6 18S copy number) for BPH, NTPC, and PCA-ADT. The chart compares p120 α (blue bars) and p120 β (green bars). p120 α shows significantly higher copy numbers in BPH and NTPC compared to p120 β .

- XML to PubReader
- 화면 크기에 구애 받지 않고 다양한 기기에서 자동으로 최적화 되어 보여줌
- HTML5 기술인 터치와 슬라이딩을 제공

JATS XML to PubReader – 브라우저

1단 화면

ULTRA SONOGRAPHY Usefulness of ultrasound elastogra...
Ultrasonography. 2014;33(2):98-104

Usefulness of ultrasound elastography in reducing the number of Breast Imaging Reporting and Data System category 3 lesions on ultrasonogra

Article information

Ultrasonography. 2014;33(2):98-104

Publication date (electronic) : February 26, 2014

doi : <http://dx.doi.org/10.14388/usg.13024>

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received : November 30, 2013, accepted : January 14,

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2단 화면

ULTRA SONOGRAPHY

Usefulness of ultrasound elastography in reducing the number of Breast Imaging Reporting and Data System category 3 lesions on ultrasonography
Ultrasonography. 2014;33(2):98-104

benign histology but negative on elastography.

Results:

Of the 276 non-palpable BI-RADS category 3 lesions, three (1.0%) were finally confirmed as ductal carcinomas in situ. cancers were found in the remaining 273 lesions with benign histology at a mean follow-up of 39.4 months (range, 12 to months). The NPV of a negative elasticity score (elasticity score 1) was 99.3% (165 of 166). If BI-RADS category 3 lesions with negative elasticity score were downgraded to BI-RADS category 2, 60.4% (165 of 273) of them with benign histology could have safely followed without biopsy with an increased malignancy rate from 1% (3 of 276) to 1.8% (2 of 110), which is not significantly higher ($P=0.626$).

Conclusion:

US elastography has the potential to reduce the number of BI-RADS category 3 lesions on ultrasonography.

Keywords: Breast neoplasms; Ultrasonography; Elasticity imaging techniques; Biopsy

Histology	Mean \pm SD	Elasticity score					Total
		1	2	3	4	5	
Fibrocystic change	1.37 \pm 0.56	74 (26.8)	33 (11.9)	4 (1.4)	0	0	111 (40.2)
Fibroadenoma	1.55 \pm 0.66	47 (17.0)	32 (11.5)	8 (2.8)	0	0	87 (31.5)
Intraductal papilloma	1.60 \pm 0.89	3 (1.0)	1 (0.3)	1 (0.3)	0	0	5 (1.8)
Usual ductal epithelial hyperplasia	1.67 \pm 0.62	6 (2.1)	8 (2.8)	1 (0.3)	0	0	15 (5.4)
Adenosis	1.50 \pm 0.67	7	4	1	0	0	12

Table 1.

Histopathology of BI-RADS category 3 lesions according to the elasticity score

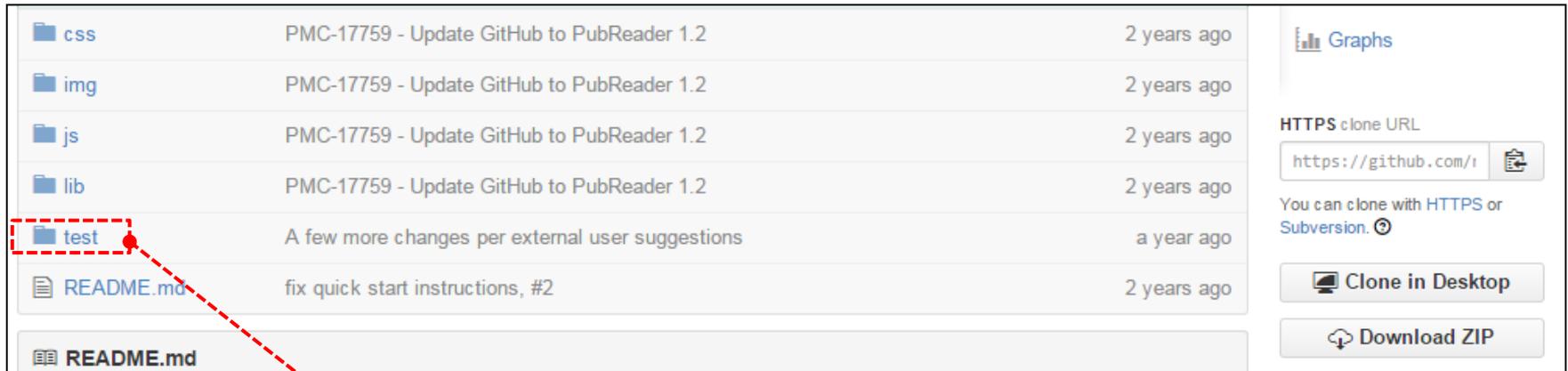


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PubReader – Download

GitHub: <https://github.com/ncbi/PubReader>



css	PMC-17759 - Update GitHub to PubReader 1.2	2 years ago
img	PMC-17759 - Update GitHub to PubReader 1.2	2 years ago
js	PMC-17759 - Update GitHub to PubReader 1.2	2 years ago
lib	PMC-17759 - Update GitHub to PubReader 1.2	2 years ago
test	A few more changes per external user suggestions	a year ago
README.md	fix quick start instructions, #2	2 years ago

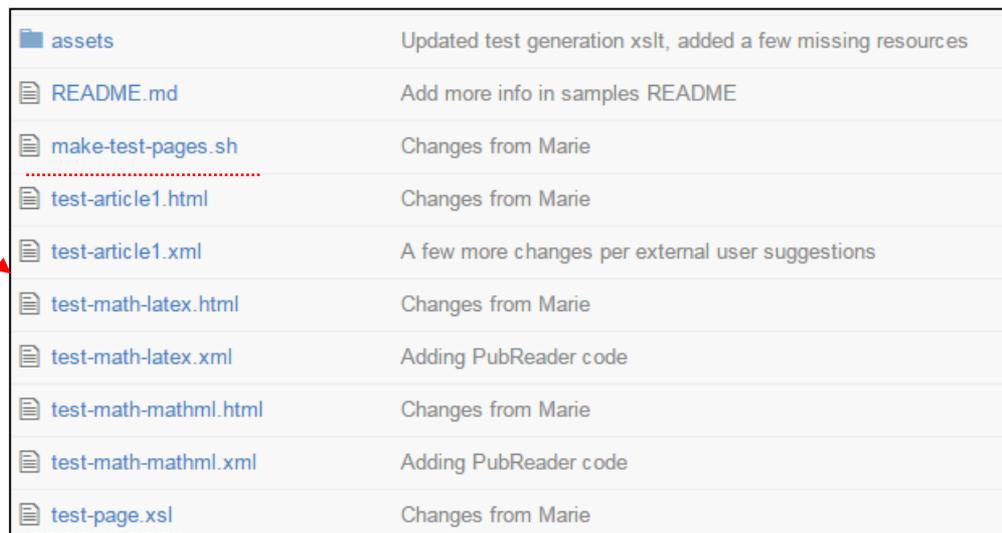
Graphs

HTTPS clone URL
<https://github.com/>

You can clone with [HTTPS](#) or [Subversion](#).

Clone in Desktop

Download ZIP



assets	Updated test generation xslt, added a few missing resources
README.md	Add more info in samples README
make-test-pages.sh	Changes from Marie
test-article1.html	Changes from Marie
test-article1.xml	A few more changes per external user suggestions
test-math-latex.html	Changes from Marie
test-math-latex.xml	Adding PubReader code
test-math-mathml.html	Changes from Marie
test-math-mathml.xml	Adding PubReader code
test-page.xsl	Changes from Marie

```
java -jar saxon9he.jar -xsl:test-page.xsl -s:test-article1.xml > test-article1.html
```