

PDF.js^{*}

MVP requirements

- Downloading
- Basic reading
- Panning & Zooming

Future work

- Pagination
- Thumbnail views
- Scrubber views

*
- Pending visual design.
- Some interactions are currently explorations; and some to be specced separately covering more details
- Purpose of this document is to support front-end work

MVP requirements

Downloading a PDF



Open & view PDF link



Save PDF under menu options



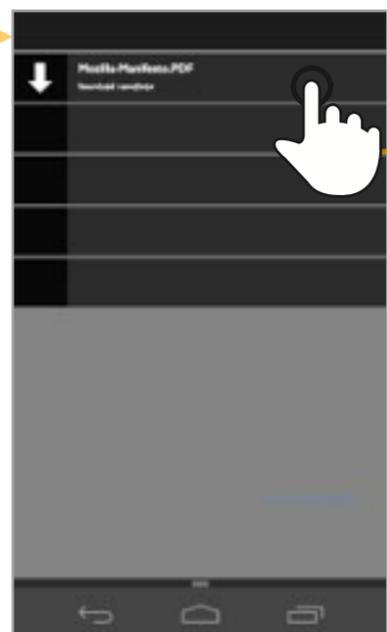
Toast notifies that download has started



Notification center shows download progress



Receive notification when download is complete



Tap on notification to view Downloaded file



Downloading a PDF (Under resource constraints)



Tap PDF link to view file



...in progress...

What if I'm
 1. Trying to view a large file
 2. Running low battery
 3. In a Slow/Expensive network

Based on different conditions, a warning might be shown or else the file would be loaded

	Small File less than 2 MB	Large File Bigger than 2 MB
Wi-Fi	No warning	Warn - Cancel or Download Large PDF file This file is 17 MB. Are you sure you want to download it? Cancel Download
3G	No warning	Warn - Cancel, Download, Download when connected to Wi-Fi On 3G This file is 17 MB. You are on 3G right now and this may cost significant money Are you sure you want to download it? Cancel Download Download when connected to Wi-Fi
Low battery (Wi-Fi/3G)	Warn - Cancel, Download, Download when plugged in On 3G This file is 17 MB. Your battery is less than 20% and this may cause your battery to drain quickly. Are you sure you want to download it? Cancel Download Download when plugged in	

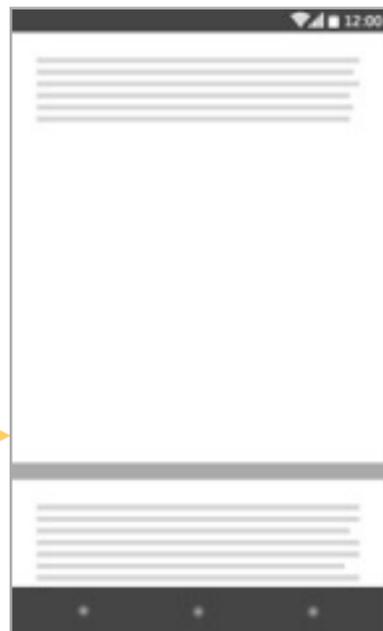
Basic Reading



Document begins to load...

Scroll down by swiping up

URL bar slides away...



...and you enter full screen mode

Scrubber appears when scrolling...

Pop up appears with corresponding page number when "scrubbing"

Release hold

When scrubber is "released" you move to that page and scrubber disappears

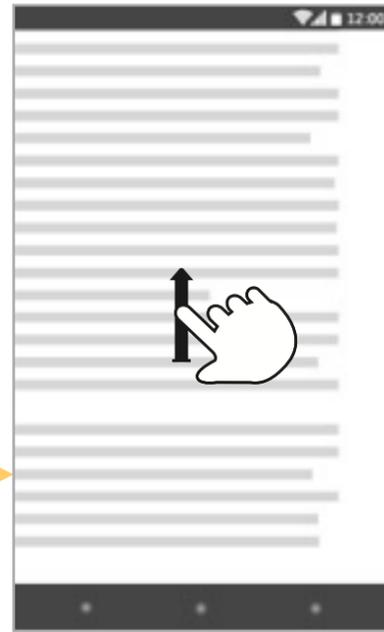
Zoom, Pan, Scroll



Pinch outwards to zoom in



Scroll in any direction to pan... when you reach the edges, a blue blur is provided as feedback



Scroll down to view next page; The next page is also zoomed in at the same level

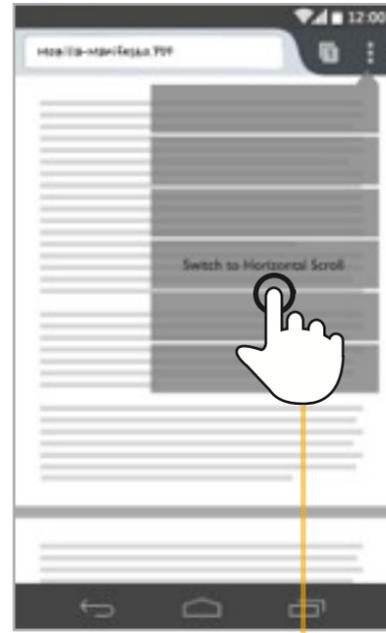


Scroll down anytime to reveal URL Bar at top

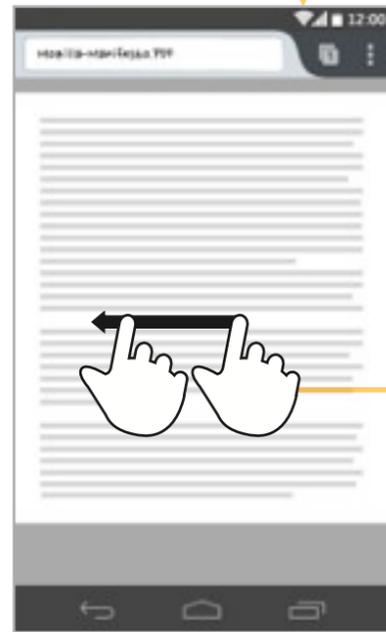


Future work

Side-by-Side reading (horizontal pagination)



Switch pagination under menu options



Swipe left to view next page



URL bar slides away...



...and you enter full screen mode...

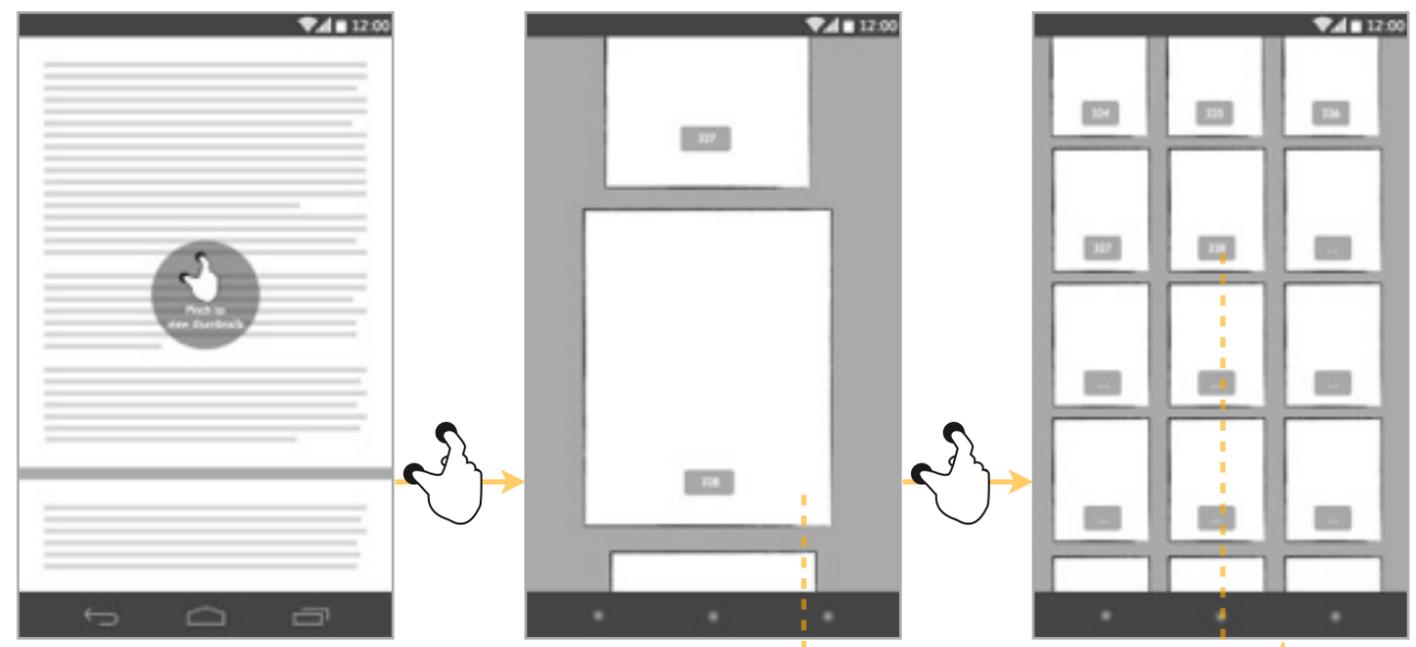


Scroll down anytime to reveal URL Bar at top



Thumbnail views

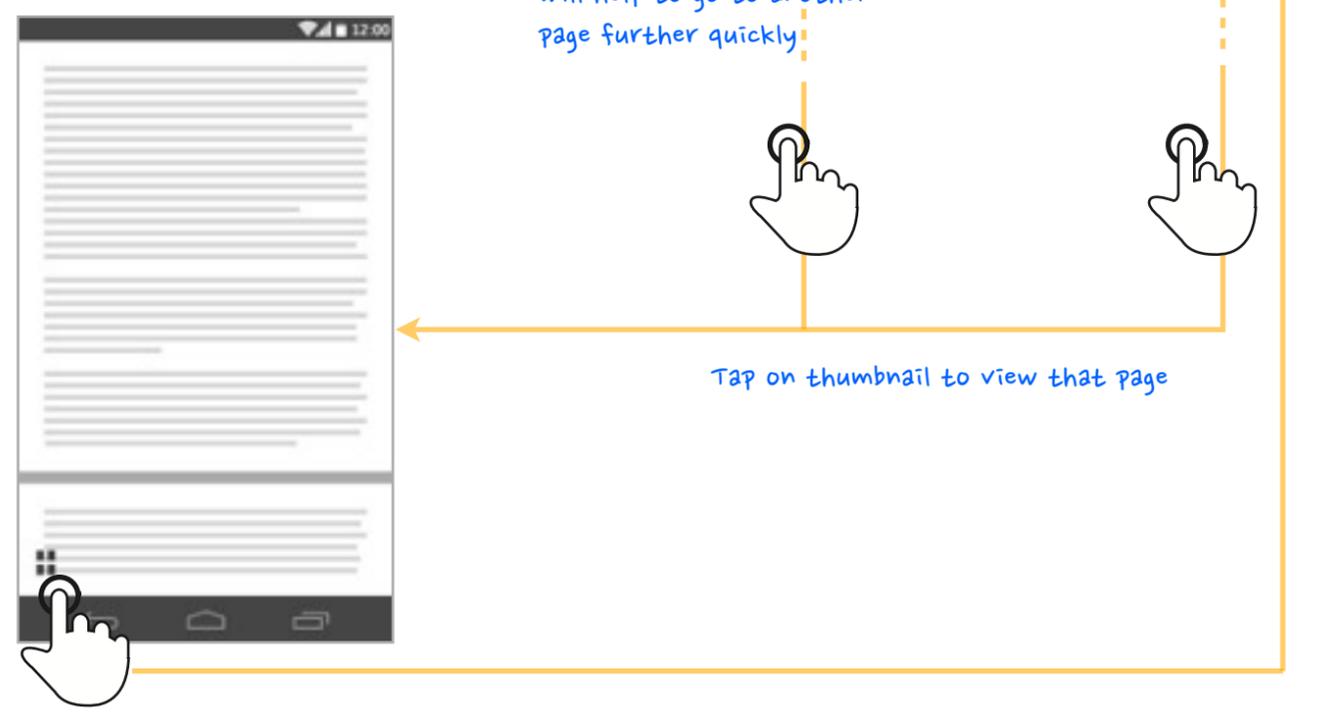
Exploration #1



overlay lets you know that you can pinch to view thumbnails

Pinch further to view smaller thumbnails that will help to go to another page further quickly

Exploration #2

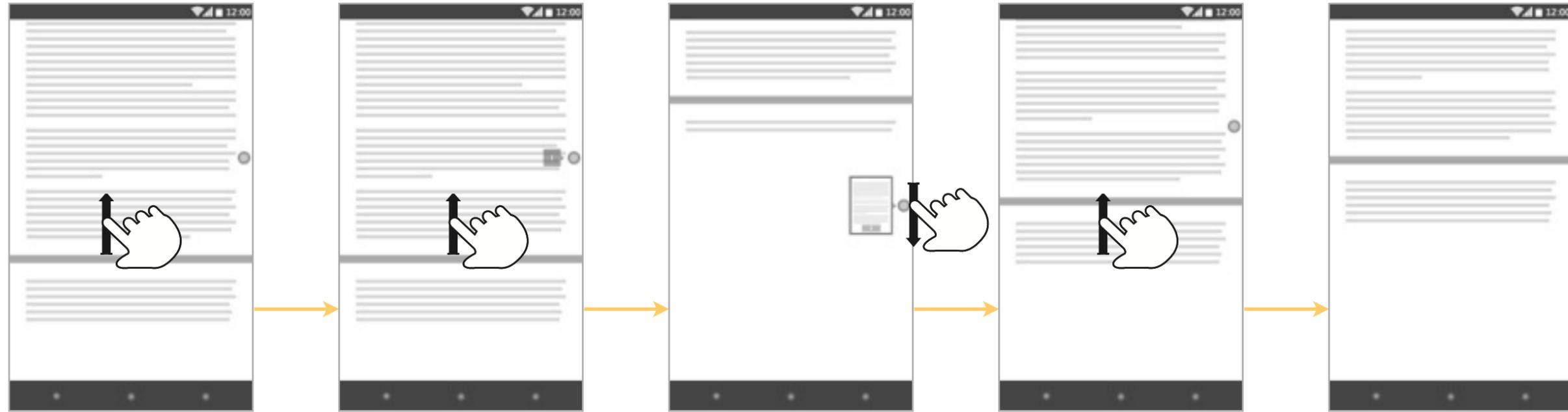


Tap on thumbnail to view that page

Tap on thumbnail button to view thumbnails

Vertical Scrubber (Minimal)

Vertical Pagination



Scroll down to reveal scrubber...

Scrolling down faster reveals page numbers; using the scrubber would also reveal the same

Scrubbing slowly would reveal page thumbnails with page numbers

Stop scrolling and the pop-up disappears...

...And the scrubber fades away until you start scrolling more than the reading speed...

Horizontal Scrubber (easier to use than horizontal)



Use bottom scrubber to move to another page



Thumbnail with page numbers guide you in the process



On releasing scrubber you move to that page



Swipe left to move to next page



Scrubber + URL bar slide away and enter full screen mode



Scroll or pull down to reveal scrubber + URL bar

Thank you,

Designers, Firefox for Android

[:ibarlow], [:abc]