Technology with Tradition

SANSKRIT E-learning
Trends, Challenges and Opportunities
SDM College, Ujire

30.01.2016
VenkataSubramanian P
Vyoma Lingusitc Labs Foundation

What is constant is change in the world – with respect to technology

"Every morning in Africa, a Gazelle wakes up.
It knows it must run faster than the fastest lion or it will be killed.
Every morning a lion wakes up. It knows it must outrun the slowest Gazelle or it will starve to death.
It doesn't matter whether you are a lion or a gazelle………
when the sun comes up you better be running."

Contents

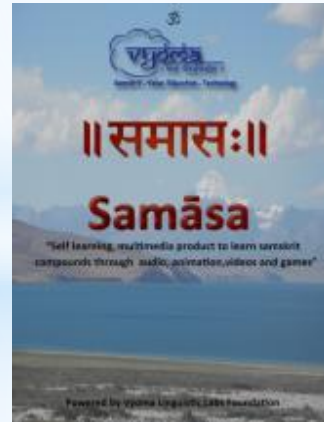| Sl No.	Description	For information/ Action
1	Demonstration – E Learning Examples	Interaction
2	Sanskrit E-learning - What, Trends, Challenges	Info
3	How Sanskrit ?	Action
4	Efforts of Vyoma Labs	Case Study
5	Recommendations & Actions of the Seminar	Action
6	Q & A	Action

Live Demo

॥ निदर्शनम् ॥

Our track record – Web + CD + Andriod + IOS
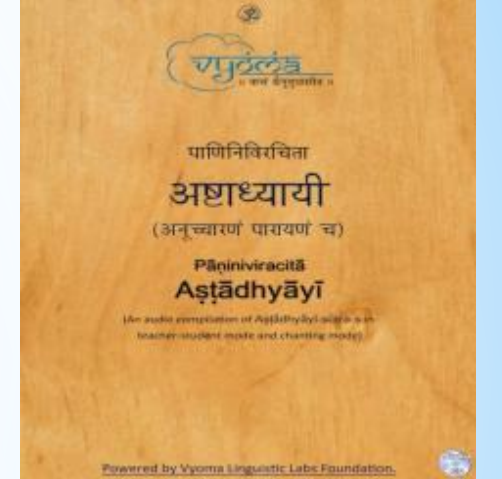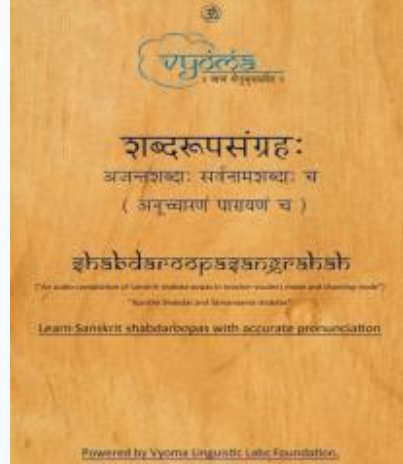
CBSE Sanskrit: 10th

Karnataka State Board Sanskrit: 10th

Visit www.vyomalabs.in for details

Sanskritfromhome : Snapshot – 2384 registered users

vyoma saṁskṛta pāṭhaśālā
Learn Sanskrit From Home, Teach Sanskrit From Home.

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Courses

Free
तिङन्तप्रक्रिया
तिङन्तप्रक्रिया(Ongoing Webinar Course)
Sowmya Krishnapur
★★★★☆

CBSE SANSKRIT - 10TH
SEMESTER - I (WEBINAR)
प्रथमसत्रम्
CBSE Sanskrit Webinar (I semester)
(Ongoing Webinar Course)
Venkatasubramanian P
☆☆☆☆☆

Free
श्रीमद्भगवद्गीता
BHAGAVADGEETA
(Chapters 1, 2 & 3)
(completed webinar course)
★★★★☆

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MA Sanskrit 2nd Year Grammar KSOU
MA Sanskrit (KSOU) 2nd Year Grammar
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Sowmya Krishnapur
★★★★★

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Samskrita Balabodh Of Bharatiya Vidya Bhavan
(Self Learning Course)
admin
★★★★☆

Free
प्रौढमनोरमा पञ्चसन्ध्यन्तम्
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(Ongoing Webinar Course)
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वैयाकरणसिद्धान्तकौमुदी आत्मनेपदप्रकरणम्
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(Self Learning Course)
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Perfecting Pronunciation

APNA COURSE

Sanskrit | पाठः –१: उच्चारणे विशेषाभ्यासः

Ms Sowmya Krishnapur

Next Topic:
➤ पाठस्य सारः

भागः ६ – उच्चारणे विशेषाभ्यासः

Part 6 - Perfecting Pronunciation

0:41

Circle **Bookmarks**

Circle @ Sanskrit

Vyoma Labs

Add your question here..

Add a detailed description here..

Load Questions

ⓘ Video progress will not be tracked if skipped forward

SANSKRIT E- LEARNING

What is e-Learning?

And.. What it is Not!

Learning connected with electronic media		Adding audio to presentations, recording live session and uploading them to Website

E-Learning		Presentations
Teach		Inform
Self-paced Learning	Objectives	Persuade
Accessibility		Reinforce
Instructional Design Principles	Process	Content with Image
Learning Level Questions	Evaluation	Q&A Session

E-Learning : Instruction delivered by any technological mode intended to promote learning

Why e-Learning for Sanskrit?

Convenience

- Learn at best time and place
- Quality consistency
- Instant Feedback and Scores
- Less commute time
- Accommodate different learning styles and interest

Flexibility

- Self Paced Learning
- Increased Confidence
- Anytime access to discussion forums/chat rooms

Cost

- Reduced learning cost
- Larger scale, lower cost per user
- Lower infrastructure/facilities cost
- Greater Capacity
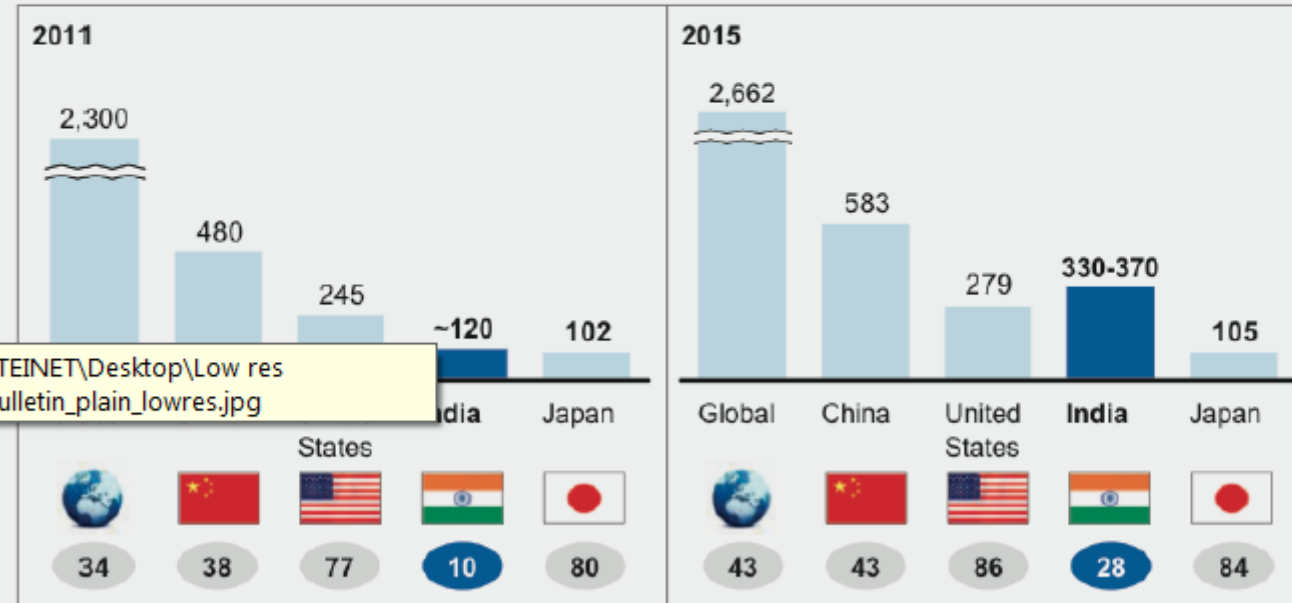
E -Learning trends and Future

India's projected 330 million to 370 million Internet users will form the second-largest Internet population in the world by 2015

Total number of Internet users
Million

Internet penetration (%)

India already has the third-largest Internet user base in the world …

… and this is expected to nearly treble by 2015 through increased mobile penetration

2011

2,300
480
245
~120
102

Global   China   United States   India   Japan

34   38   77   10   80

2015

2,662
583
279
330-370
105

Global   China   United States   India   Japan
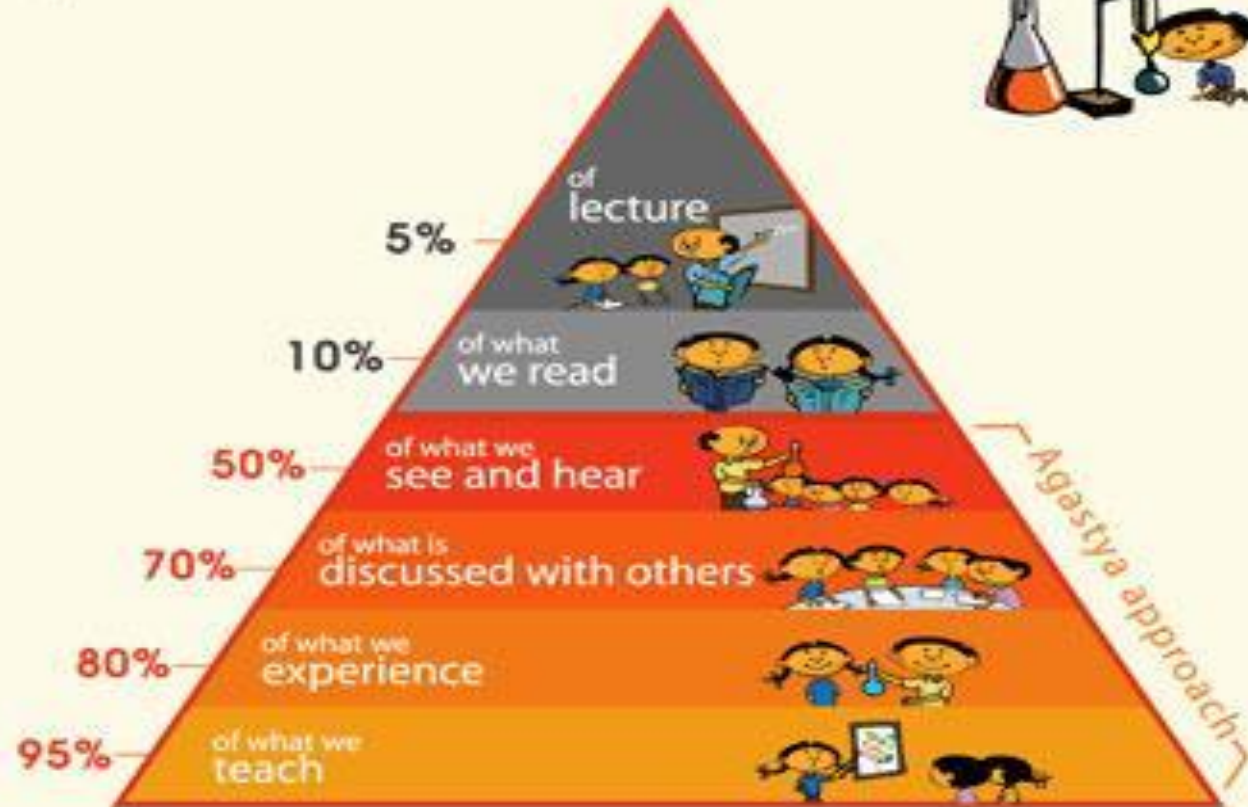
43   43   86   28   84

SOURCE: Internet World Stats (2010); Business Monitor International (BMI); International Telecommunication Union (ITU); McKinsey Digital Consumer survey; Public information; Pyramid Research; McKinsey analysis

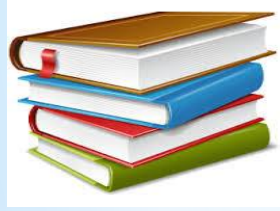# FOCUS ON HOW SANSKRIT HAS TO BE TAUGHT ?

Learning Pyramid

Tiered model for Samskrit learning

Traditional way

Mass Media approach

Śāstrādhyayanam

शास्त्राध्ययनम्

Granthādhyayanam

ग्रन्थाध्ययनम्

Bhāśādhyayanam

भाषाध्ययनम्

E-learning – Student Engagement Model (1 of 2)

Fun combination of Audio, Video, games, activities, animations, tables, charts, question paper generator, self assessment, etc
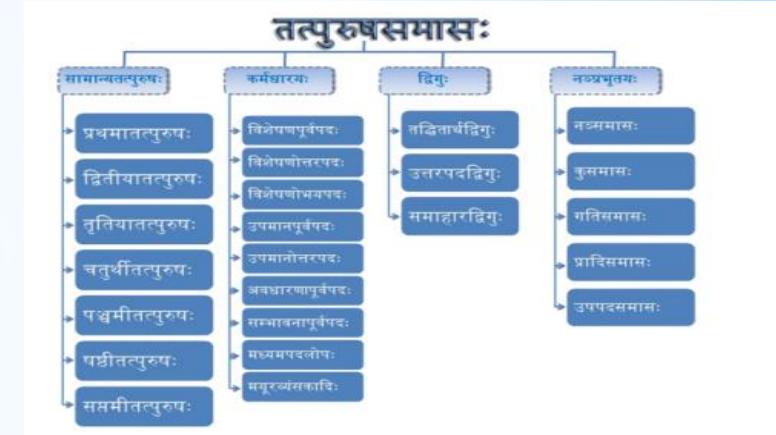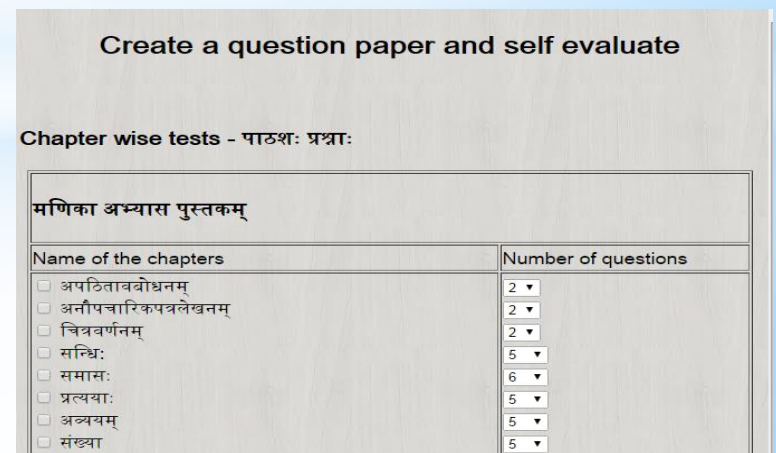
Video

Activity

Charts

Games

Animation

Question paper generator

E-learning – Student Engagement Model (2 of 2)

Tables

Exercises

Revision before Exam

Student Performance Dashboard

संस्कृतबालामोदिनी

SAMSKRITA BAALAAMODINI
SANSKRIT FOR CHILDREN
SANSKRIT MADE EASY FOR BEGINNERS
संस्कृतबालामोदिनी
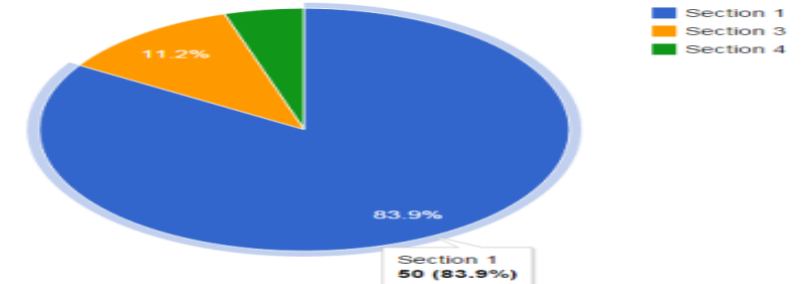
SAMSKRITA BAALAAMODINI-V2
SANSKRIT FOR CHILDREN
SANSKRIT MADE EASY FOR BEGINNERS
संस्कृतबालामोदिनी

Digital Multimedia Learning tool for children for basic Sanskrit

Instructional Design Strategy

संस्कृतबालामोदिनी

Concepts	Presentation	Skills
• Sounds	• Text	• Listening
• Script	• Audio	• Reading
• Vocabulary	• Images	• Writing
• Genders-numbers	• Animations	• Comprehension
• Nouns,Pronouns, Verbs, Adjectives, Numerals	• Interactive games	• Speaking (basic)

सन्धिः

Digital Multimedia Learning tool for children for Sandhis

Instructional Design Strategy - सन्धिः

Concepts

- Basic concepts of letters and pratyaharas
- Sandhikaaryas
- Sandhivibhaaga
- Rules of Sandhis
- Examples

Presentation

- Text
- Audio
- Animations
- Interactive exercises
- Innovative games
- Charts

Skills

- Understanding the basis of sandhis
- Understanding Sandhi rules
- Applying rules to join and split sandhis
- Applying sandhis in actual writing

* How Samskrit – through existing Vyoma Resources

संस्कृतबालामोदिनी — Sanskrit For Children

Letters, words, simple sentences
- CD
- android apps
- i-app

संस्कृतप्रारम्भः
संस्कृतबालबोध:

With Proverbs and simple verses – exam by Bharatiya Vidya Bhavan

Audio + Notes in www.Sanskritfromhome.in

तृतीया
द्वितीया
प्रथमा

With Basic grammar, simple lessons & Subhashitas – exam by SSS Sringeri

E-learning in www.surasaraswathisabha.org

सन्धि:

Deep study into all 25 sandhis – Multimedia product with Animation & games
- CD
- Web version

शब्दरूपसंङ्ग्रह:

Audio CDs, with teacher-student mode & parayanam mode to learn :
- 4000 sutras
- 220+ shabdas
- CD
- Web version

||समास:||

Multimedia CD/ web based learning system to understand - Compounding of words in Samskrit
- CD
- Web version

लघुसिद्धन्तकौमुदी
अष्टाध्यायी

Advanced grammar lessons on various areas - live / recorded webinar sessions

Audio + Notes in www.Sanskritfromhome.in

*Language Skills- through existing Vyoma Resources

Listening

Scripting Writing
संस्कृतबालामोदिनी
Sanskrit For Children
शिशुगीतानि
Shishugeetaani
Collection of Sanskrit Rhymes for kids.

Vocabulary (1000 words)
संस्कृतबालामोदिनी
Sanskrit For Children

Reading Listening
संस्कृतबालामोदिनी
Sanskrit For Children
तृतीया
द्वितीया
प्रथमा

Pronunciation
LEARN SAMSKRIT PRONUNCIATION THROUGH
श्रीमद्भगवद्गीता
CBSE Sanskrit - 10th
शब्दरूपसंङ्ग्रहः

Grammar Comprehension Usage
LEARN SAMSKRIT PRONUNCIATION THROUGH
श्रीमद्भगवद्गीता
अष्टाध्यायी
सन्धिः
॥समासः॥

Creative Writing Project Based Learning
प्रथमभाषा संस्कृतम्
दशमकक्ष्या-१०
(कर्णाटक-राज्य-छात्राणां कृते)
CBSE Sanskrit - 10th

Critical success factors – Sanskrit E-learning

- End User Customization - Blooms Taxonomy

- Instructional Design Strategy – Gamification, Stories, Anecdotes, Activity Based Learning, Skills, Output, Resultd

- Engage the learner

- How do we evaluate ?

- Blended Learning

- Mode of Evaluation

Challenges in Sanskrit e-Learning

Lack of technology awareness in student/teacher

Constant Student motivation

Interaction with large group: Determination of who is the learner?

IT Infrastructure in Rural Areas Digital India Is the Solution!
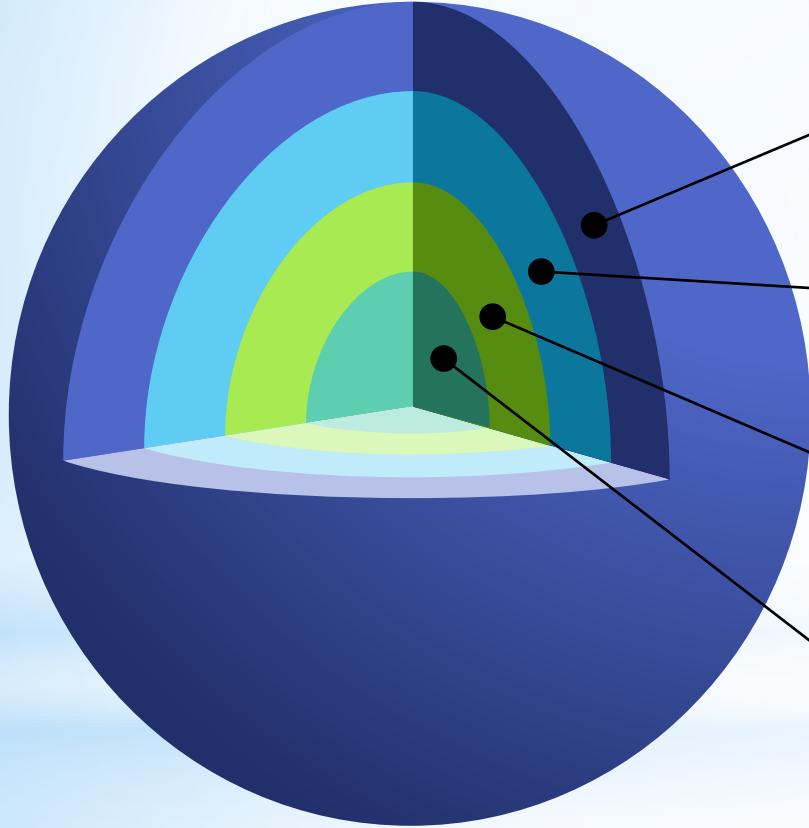
Content Development & Costs for High Quality Products

Evaluation (Specific to Samskritam)

Adapting to Different Modes (web, CD, Mobile, etc)

How to overcome **Content Development** bottlenecks and **Infrastructure** Snags?

CLASS ROOMS OF THE FUTURE _ VIDEO

Recommendations for Teachers – स्मारये न तु शिक्षये

Blended Learning is Basic
Technology + Activity Based + with Focus on **Skills and not mere degree/ Marks**

Enhance the Standards of Teaching
Use the tools available, engage with the learner – offline & online Customize the tool to the learner characteristic.

Teaching & Learning Principles – Anubhanda chatushtaya of How Sanskrit
Learner, Learning objectives, Instructional design principles, End Result – Learners Delight

The Science of Teaching is Dynamic
Innovation required – How can we make it better and better?

CAN TECHNOLOGY BE AN ANSWER TO SOME OF THESE QUESTIONS?

Action Points

| Teachers	Students	Influencers/ Enablers
• Use the tools for teaching • Project based learning (wiki, e-library, e-learning content, manuscripts) • Focus on skills and How samskrit • Innovation • Create a group and interact with peers • Become member of BVP	• Work in projects • Develop skills • Use the tools for learning	• Institutionalize the same. • Support for Organisations doing work in this area. • Setting up of Language Labs

For all your Sanskrit E-learning Needs, Please reach out to

Head Office
Vyoma Linguistic Labs Foundation
#155, 4th cross, GKW Layout, Vijayanagar,
Bengaluru – 560040
HP +91 9845942823

Thank you!

www.vyomalabs.in
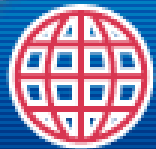
WorldWideWebSize.com
DAILY ESTIMATED SIZE OF THE WORLD WIDE WEB

The size of the World Wide Web (The Internet)

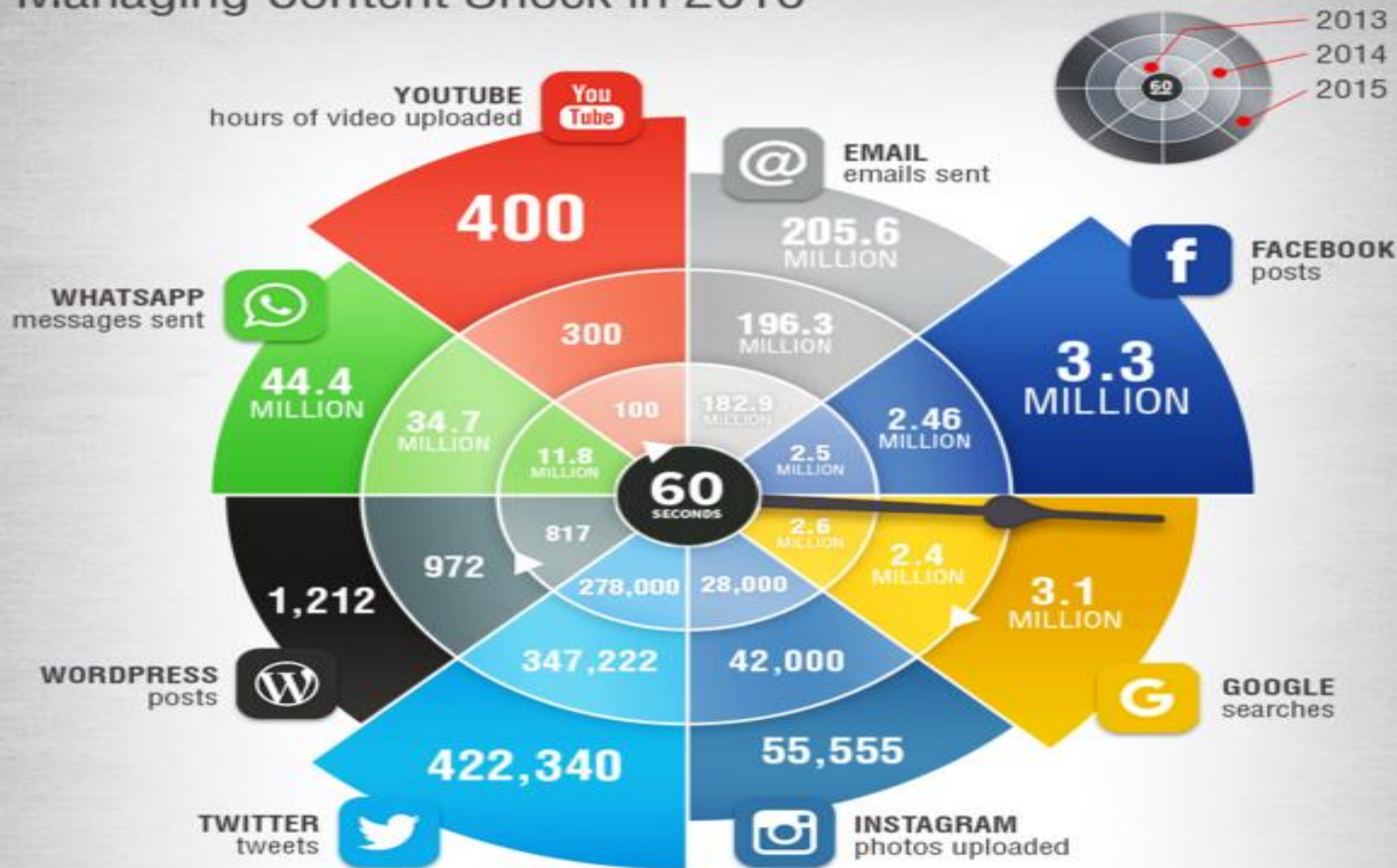The Indexed Web contains **at least 4.84 billion pages** (Thursday, 28 January, 2016).

The Dutch Indexed Web contains **at least 247.07 million pages** (Thursday, 28 January, 2016).

The Indexed Web | The Dutch Indexed Web

IN **60** SECONDS...

1 **NEW** DEFINITION IS ADDED ON UP DATE

1,600+ **READS ON** Scribd.

13,000+ HOURS **MUSIC** STREAMING ON PANDORA

12,000+ **NEW ADS POSTED ON** craigslist

370,000+ MINUTES **VOICE CALLS ON** skype

98,000+ **TWEETS**

20,000+ **NEW** POSTS ON tumblr.

320+ **NEW** twitter **ACCOUNTS**

13,000+ iPhone **APPLICATIONS DOWNLOADED**

100+ **NEW** Linked in **ACCOUNTS**

QUESTIONS ASKED ON THE INTERNET...

100+ Answers.com 40+ YAHOO!

1 **NEW** ARTICLE IS PUBLISHED

THE WORLD'S LARGEST COMMUNITY CREATED CONTENT!!

6,600+ **NEW** PICTURES ARE UPLOADED ON flickr

600+ You Tube **NEW VIDEOS**

50+ WORDPRESS **DOWNLOADS**

25+ HOURS **TOTAL DURATION**

70+ **DOMAINS REGISTERED**

60+ **NEW BLOGS**

168 MILLION **EMAILS ARE SENT**

694,445 **SEARCH QUERIES**

1,700+ Firefox **DOWNLOADS**

695,000+ facebook **STATUS UPDATES**

=125+ **PLUGIN DOWNLOADS**

1,500+ **BLOG POSTS**

Google Google Search

79,364 **WALL POSTS**

510,040 **COMMENTS**

GO-Globe.com

What Happens Online in 60 Seconds?
Managing Content Shock in 2016

2013
2014
2015

YOUTUBE hours of video uploaded — You Tube

400
300
100

EMAIL emails sent — @
205.6 MILLION
196.3 MILLION
182.9 MILLION

FACEBOOK posts — f
3.3 MILLION
2.46 MILLION
2.5 MILLION

WHATSAPP messages sent
44.4 MILLION
34.7 MILLION
11.8 MILLION

60 SECONDS

817
972
278,000

28,000
2.6 MILLION
2.4 MILLION

WORDPRESS posts — W
1,212
347,222

TWITTER tweets
422,340

INSTAGRAM photos uploaded
42,000
55,555

GOOGLE searches — G
3.1 MILLION

Why ICT for Sanskrit Teaching ?

- Transform from Manual worker to Knowledge Worker (Knowledge Economy)

- Information / Knowledge age – Paper based skills cannot keep up with the pace of information creation

- Eric Schmidt , Chairman of Google

- *We now create more new knowledge in 1 day than the total knowledge that was created since the dawn of human race*

- *Printing : Books = Internet : ICT*
(Vidvan Mani Dravida Sastrigal Advaitha vedantha)
Keep pace with the information created. Any idea how much information is available ?